The American Artisan
And Hardware Record

Vol. 55. No. 10. CHICAGO, MARCH 7, 1908. $2.00 Per Year.

All Kinds of
BOLTS, RIVETS, NUTS, WASHERS, CARRIAGE FORGINGS, ETC.
Send for 1908 Catalog "R" Prices on Application
COLUMBUS BOLT WORKS
COLUMBUS, OHIO

IN THE FRONT RANK FOR 25 YEARS
"AMERICAN SEAL"
ELASTIC OIL ROOFING CEMENT
STOVE PUTTY and ASBESTOS FURNACE CEMENT
and the superior quality of these goods is still universally recognized.
THE WM. CONNORS PAINT MFG. COMPANY
MAKERS
TROY, N. Y.
Western Agent
FRIEDLEY-VOSHARDT CO.
194-204 Mather Street, Chicago, Ill.
Southwestern Agent
STOCKHOFF SUPPLY COMPANY
107 N. Main St., St. Louis, Mo.

TRYING to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

The Hardware Merchant who sells good goods
SELLS ORIGINAL
MATCHLESS
Floor Hinge, Jamb Hinges, and Hardware Specialties.
If your Jobber cannot furnish them, write us.
LAWSON MFG. CO
40 Dearborn St., Chicago, Ill.

NEW DESIGN WORLD'S BEST
TUBULAR TRACK DOOR HANGER

We have increased the diameter of the wheel to 2¼ in., making it the easiest running Hanger on the market.
The supplementary wheel prevents derailment. Frame is made of best grade malleable iron. Finished in Aluminum and each pair packed in an individual box, complete with bolts. The track brackets are slidable and may be placed at any point desired. We do not sell catalog houses. Write for prices.
SAFETY DOOR HANGER CO.
Manufacturers
Ashland, Ohio Hamilton, Ont., Can.

"NEVER-BREAK"
TRADE MARK

Catalog Free
"NEVER-BREAK"
Steel Spiders, Griddles & Kettles
WILL NOT
Scale Off like cheap enamel
WILL NOT
Scorch or Burn like light fry-pans and skillets.
WILL NOT
Absorb Grease or Flavors like cast iron.
THE AVERY STAMPING CO.
CLEVELAND, OHIO
Sole Manufacturers
"NEVER-BREAK" Goods.

QUALITY COUNTS—That is why
FILES OF QUALITY
DELTA FILES
TRADE MARK DELTA
make good every time. They are THE files of QUALITY. Manufactured by an independent organization; not connected with any TRUST in any form, shape or manner.
CARVER FILE CO., Philadelphia, Pa.

$750.00 FREE!

$500.00 in Cash
$250.00 in Premiums
First Prize $100.00
Send for particulars.
Pullman Mfg. Company
Sophia Street, ROCHESTER, N. Y., U. S. A.

If you want a Hone that is perfect in every way

we have it. "Apart" Hones contain no veins or irregular formations and will give complete satisfaction.
For sale by all jobbers
S. R. DROESCHER
79 Warren St., New York, N. Y.

"Nothing Gets Away But the Ashes"

The Cinderella Air Tight

Can now be furnished with

The Vertical Blast Fire Pot

The only Slotted Fire Pot in which the iron is of Even thickness at Every point.

This Feature is the Fire Pot Improvement of the Century

as it fully overcomes the tendency, so pronounced in Slotted Fire Pots, to split or crack because of the uneven thickness of their surface.

The Vertical Blast Fire Pot

is as durable as a simple solid fire pot and more efficient than any similar construction—because there is an additional Hot Blast through the triple walled illuminated feed door.

"Shake the Fire Only Half as Much"

Stove & Range Co. of Pittsburgh

PITTSBURGH, PA.

Western Agency, W. D. SAGER, 38 to 40 Michigan Street, CHICAGO, ILLINOIS

Sager Says; "We've Got the Goods."

WHAT ONE GOOD MAN CAN DO!

If the KELSEY Generator is not already sold by a live Dealer in your vicinity—we want to hear from you,

If you are anxious to get ahead of the game, and make a profit that is really worth while—you are just the man who can make the most out of the Exclusive Agency for the KELSEY.

Any dealer who is interested in the heating business can sell KELSEY Generators on their merits, to any kind of a customer who wants the best and most economical results, and at prices not made to meet Furnace competition.

If you want the Agency for the heater that is becoming better and more favorably known every year, ask for our Exclusive Agency Proposition.

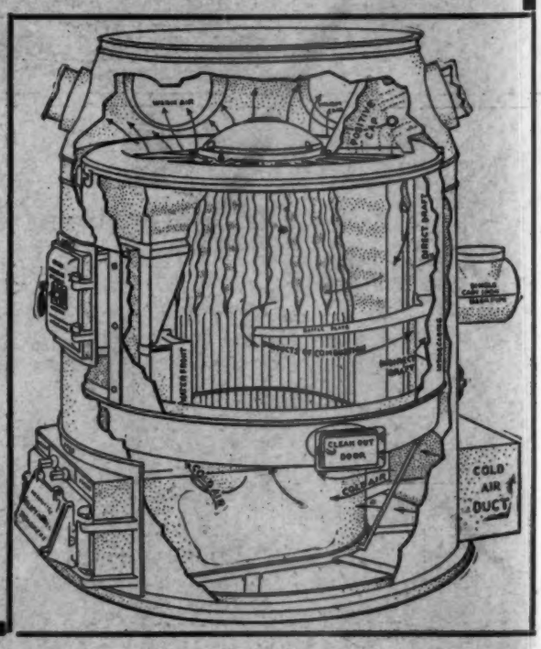
But don't wait until someone else takes the Agency in your locality—*get it yourself!*

Kelsey Heating Company

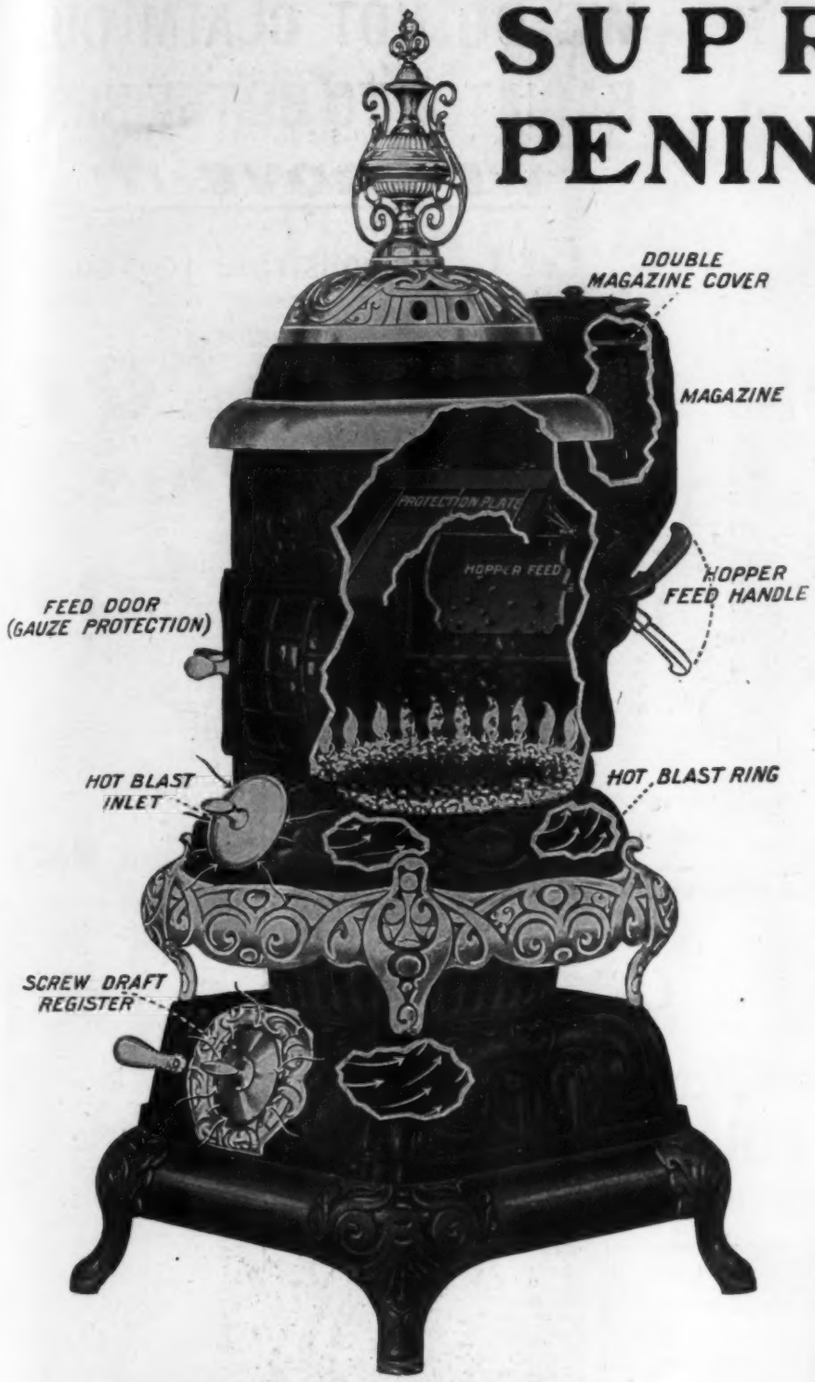
SYRACUSE, N. Y.

New York: 156 Fifth Ave.
Van Evera & Lewis Mfg. Co.
104-106 W. Lake St., Chicago

James Smart Mfg. Co., Brockville, Ont., Sole Makers for Canada



SUPREME PENINSULAR



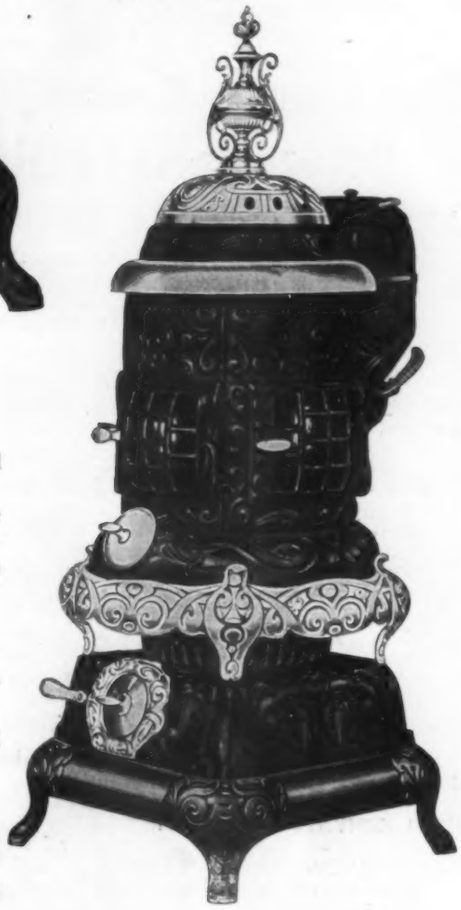
Outside-Magazine Specialty.

The Greatest achievement in Stove Making of the day.

The only stove of its kind made.

Absolutely no competition.

Fully covered by patents.



Points for Consideration:

Burns Soft Coal, Hard Coal, Coke or Wood, with equal success without any changes.

Magazine being outside it does not in any manner interfere with combustion chamber.

One upward movement of the Hopper Feed Handle distributes evenly the contents of the hopper.

Fuel never burns up in magazine.

Fire is always fed from within.

No chance for soot, dust or smoke to escape into room, when feeding fire as doors are not used.

Write and secure the exclusive agency for this wonderful stove at once. If you don't, your competitor will.

The Peninsular Stove Co.

Detroit **Chicago** **Buffalo**

WE DO NOT CLAIM OUR RADIATOR TO BE THE BEST

WE PROVE IT!

Let Us Demonstrate to You.

Monitor Front Flue Radiator

Five Oval Front Flues

The Greatest Achievement in Stove making

The Only Stove of Its Kind Made

Write to-day and Secure the Agency.

The Champion Monitor Steel Range Has No Equal

AS TO STYLE AND DURABILITY.

Very moderate in price, considering weight, construction and quality.

Our New Catalogue is now ready. Do you want a copy?

We manufacture a complete line of Coal and Gas Heating and Cooking Stoves and Ranges, the equal of which cannot be found.

Write and Secure Agency at once Before your Competitor does it

The Monitor Stove & Range Co. Cincinnati

MORLEY BROS., Saginaw, Mich., distributors for the State of Michigan.
GREAT WESTERN STOVE & REPAIR CO., Minneapolis, Minn., Northwestern Distributors
JOHN KONTNY, Chicago, Ills., Distributor for Illinois
THE MORLEY-MURPHY HARDWARE CO., Green Bay, Wis. Distributors for Wisconsin

Champion Monitor Steel Range

Something New!

Boynton's Special Low Down Furnace

Made in Four Sizes for burning Hard or Soft Coal, Wood or Natural Gas

Made to meet the demand for a low down warm air furnace for shallow basements.

This furnace is made in elliptical form. The casings and radiator being concentric, the warm air passages are evenly distributed, and the flow of air will be equal to all the pipes.

Notice the construction of the Body, or Radiator, with the feed door opening close to the fire pot, allowing of easy firing. The products of combustion pass simultaneously backward and upward through opposite openings from the combustion chamber, and enter the smoke pipe low down at back of radiator, thereby thoroughly warming the air passing through the air spaces of the radiator.

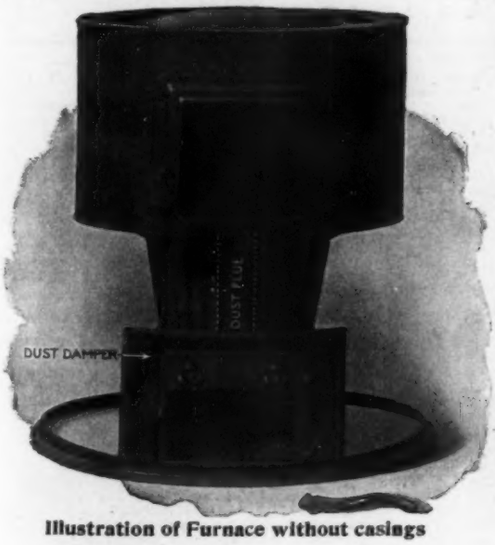


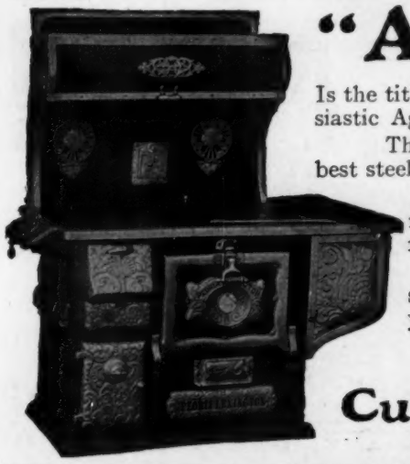
Illustration of Furnace without casings

Illustration of Furnace showing construction of Body and Radiator

The Boynton Furnace Co.

147-149 Lake Street, Chicago **207-209 Water Street, New York**

Write us for Special Circular and Prices



"A Dealer's Delight"

Is the title given **Peoria Lexington Steel Ranges** by one of our enthusiastic Agents.

This line was produced with one object in view, namely, to produce the best steel Range offered by any manufacturer at any price.

We spared no expense; secured the most skilled workmen, best materials and incorporated all the meritorious features known to Range manufacturers.

If the line you handle is hard to sell, and you're not getting your share of the range business, let us send our printed matter and show you a better way—our way. **Write to-day.**

Culter & Proctor Stove Company

Hamilton and Water Streets, PEORIA, ILL.

A Strong Selling Combination

When you consider the quality of materials we use and the quality of finish we produce in the manufacture of

Champion Steel Ranges

You will readily see what a strong selling combination we offer you. By selling the *Champion Steel Range*

You Can Successfully

overcome the cut-price, cut-quality kinds of competition and make a good profit too. Your interest in our catalog is sure to be of money making benefit to you. Send for it.

Champion Steel Range Co.,

CLEVELAND, OHIO.

BOOKS BY MAIL.

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NO BOOKS EXCHANGED

SHEET METAL WORKING.

GRAY'S PERFECT ELBOW PATTERNS.

On heavy blue print paper. From one inch to twenty inches; price $1.50, prepaid. From twenty inches to forty inches, price $1.50, prepaid. From one inch to forty inches, made in 2, 3, 4, 5, 6 7 and 8 pieces with 160 patterns and angle chart showing all angles and degrees of same gotten from 160 patterns, price $3.00, prepaid.

GRAY'S PERFECT SKYLIGHT PATTERNS.

For single pitch, gable and hip skylights. Contains 6 to 8 and 10-inch ventilator patterns and skylight chart, giving the length to cut hip and rafter bars for any size skylight up to 24 feet wide, for ⅓ pitch skylights. Full set of patterns and charts. Price, $3.50, prepaid.

TIN, SHEET IRON AND COPPER PLATE WORK.

This is a work of the greatest value to all who work in sheet metal. It describes the method of laying out nearly everything which the metal worker will be called upon to make. Joints, elbows, and all kinds of kitchen utensils are fully described. The work is supplemented by rules for mensuration and hundreds of valuable receipts. By L. J. Blinn. This book contains 296 pages with 169 illustrations, bound in cloth. Price, $2.50.

TINNERS' HELPER AND PATTERN BOOK.

By H. K. Vosburgh. Rules, diagrams, tables, 123 pp, 53 figures. Price, $1.00.

PATTERN-MAKERS' HANDYBOOK.

A valuable work for the beginner. It is thoroughly practical and has a deservedly large sale. By P. N. Hasluck. Price 50c; 50c edition is paper.

THE CORNICE WORK MANUAL

Is a 240-page book, illustrated with 154 engravings. It is thoroughly indexed and attractively gotten up, with substantial red cloth covers, embossed in gold. Chapters treat of The Cutters' Bench, Drawing Tools and Angles, Cutters' Tools, The Entabulature, The Reading of Drawings, The Measuring of Cornices, Estimating, Right Angle Mitre Patterns, Bracket Patterns for Panel Sections, Right Angle Return Mitre Patterns, Patterns for a Pediment and Their Development, Patterns for a Segmental Section of a Pediment. Details and Patterns for a Finial, Bracings and Fastenings of Cornices to Buildings, Staging and Scaffolding for Cornice Work, Ornament Stamping Machine, The Management of Ropes and Hoisting Tackle, Plan and Details of a Gable and Horizontal Cornice, Detail of Slating and Slaters' Tools, Details for Horizontal and Raking Mitre Patterns, and the development of Details and Patterns of the Turrets. Price, $3.50.

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A 250-page book, containing over 200 illustrations. By Joe K. Little. This book gives several methods for developing some of the most difficult and complicated patterns. It also devotes considerable attention to patterns of irregular shape and unequal taper. The laying off of patterns by triangulation is shown at length. This book is eminently practical and is recognized as the paramount practical authority in its chosen field. Price, $3.50 per copy.

SHEET METAL WORKERS' GUIDE.

A collection of rules and diagrams, for describing the most useful patterns ordinarily required, preceded by chapters on Sheet Metal Work, Soldering, Geometry as applied to Sheet Metal Working. By W. J. E. Crane. Price, postpaid, 60 cents.

100 TINNERS' PATTERNS.

THE AMERICAN ARTISAN Full Size Patterns printed on manilla paper, from which they are readily transferred to heavy sheets and cut out ready for use. Price, sent postpaid, for the full set of 100 patterns, $1.

DANIEL STERN, PUBLISHER AND BOOKSELLER, 69 DEARBORN STREET, CHICAGO

Shaded Sectional Cut

of the

"Low Down" Crown Warm Air Furnace

Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.

March-Brownback Stove Co.

POTTSTOWN, PA.

The WEIR Still Leads

This ALL-STEEL GAS and SOOT-CONSUMING FURNACE still sets the pace for all others.

THE WEIR

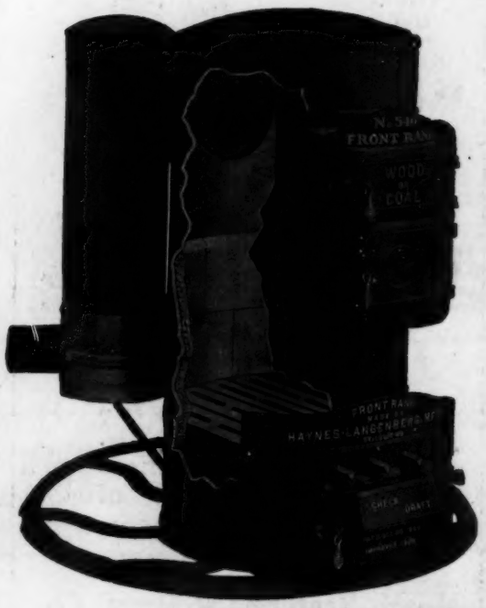
has been the pattern for all Steel Furnaces since it was first placed upon the market, but certain valuable principles radically in advance of those of other furnaces have maintained for it a position far in advance of all competitors.

The burning of Gas and Soot in THE WEIR is a demonstrated fact.

Let us tell you more about it. Write to-day for catalog.

The Meyer Furnace Co., Peoria, Ill.

For Economy
For Durability
For Lasting Results



INSTALL THE

FRONT RANK STEEL FURNACE

Built Like A Boiler.
Absolutely Gas and Smoke Proof.
Over 10,000 in Use in Our Home City
ST. LOUIS
Thousands Elsewhere.

We want agents everywhere. Write for our attractive Proposition, Catalog and Terms. Write us today.

Sales Agents for Wisconsin and Northern Peninsula of Michigan
CORDES HEATING & SUPPLY COMPANY, MILWAUKEE, WIS.

HAYNES-LANGENBERG MFG. CO.

4045-4047 Forest Park Boul., ST. LOUIS, MO.

XXth CENTURY FURNACE

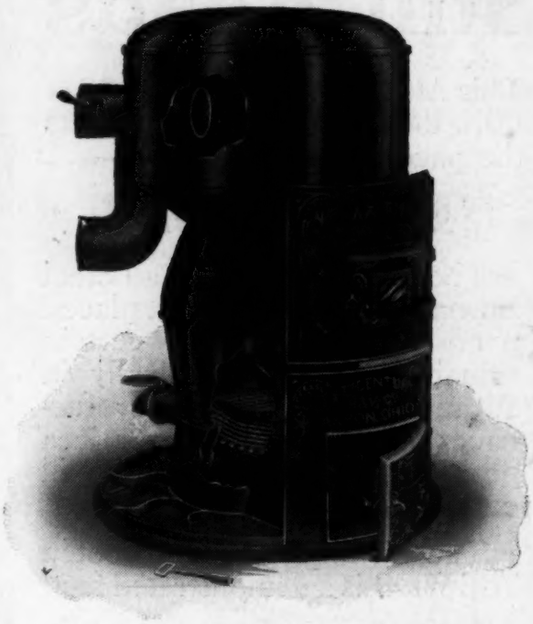


Plate Body Radiator

There is no better soft coal furnace than this. It is a quick and reliable worker. It is simple, durable and efficient. The lower sections are in heavy durable cast iron. The large corrugated dome is a heavy plate closely riveted The cap is of cast iron. The dome section is self cleaning. The soot drops away from it and adds to the fuel, making it absolutely self cleaning. The heat produced is all utilized by radiation from the shell, the dome and the radiating pipes.

Burns soft coal, lignite or wood perfectly and has the best known draw and shaking grate that lifts out bodily and the XXth Century slotted fire pot provides perfect combustion for the fuel. **Strong, Durable** and economical. There is nothing about it to get out of order.

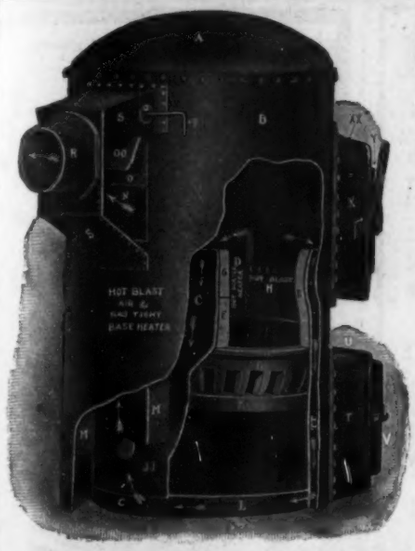
Features: heavy castings, large feed door, large ash-pit, large combustion chamber, high quick heating radiator, perfect regulation, unusual amount of radiating surface, self cleaning, simple, durable, perfect and the best front damper regulating arrangement. Gas tight, dust tight.

The Furnace that Works and Satisfies.
Get Our Catalogue.

XXth CENTURY HEATING AND VENTILATING COMPANY
AKRON, OHIO.

BRANCH HOUSES AND REPRESENTATIVES:

G. W. MOULTON, Kansas City, Mo. O. F. MORROW, Minneapolis, Minn. J. H. CUNDIFF, Peoria, Ill.
E. L. JAYNES, Chicago, Ill. GUS DOLAN, Rochester, N. Y.



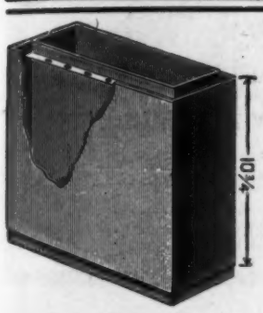
Evolution of the Perfect Furnace

THE NEW and BETTER way of home heating, plainly told and finely illustrated in the new Quaker Catalog No. 21A. It's yours for the asking.

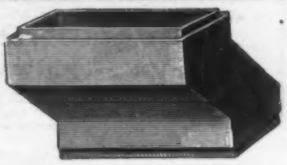
We manufacture complete Heating Plants.

WARM AIR and HOT WATER

Quaker Mfg. Co.
Offices and Exhibit Rooms
40 Dearborn Street, Chicago, Ill.
Factory, CHICAGO HEIGHTS



The MICHIGAN SAFETY FURNACE PIPE COMPANY



Corner Brooklyn and Abbott Streets
DETROIT, MICHIGAN

Manufacturers of Safety Wall Pipe, Single Pipe and Fittings in Both Tin and Galvanized Iron.

Send For Our Latest Catalog

We Want Your Business And Are Able To Take Care Of It.

We belong to no combination. Do not get our name confused with other manufacturers.

Monarch Air Blast

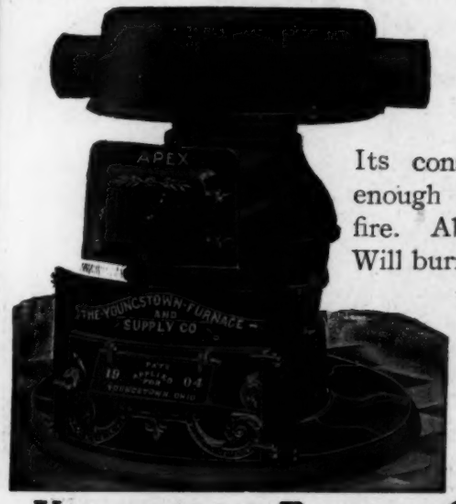
All the advantages of our famous MONARCH plus the air blast. This is a sectional upper fire pot constructed so that oxygen is fed into and above the fuel burning the gases, assuring economy, cleanliness. It is the most practical soft coal furnace offered the trade.

Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO

Mfrs. The Imperial, Niagara and Combination Furnaces, Registers, Mail Boxes, Hitching and Sash Weights, Etc. Write for our new Catalog.

The APEX Warm Air Furnace



is an extra heavy, durable furnace with a most powerful heating capacity. Its construction is strong enough to resist the fiercest fire. Absolutely gas tight. Will burn hard coal, soft coal or coke. Simple to to operate, economical and thoroughly efficient.

Write Today for Catalogue

Youngstown Furnace & Supply Co.

Chicago Office, 211-213 Lake St. **Youngstown, Ohio**

Rood & McIntyre, Kansas City, Mo., Southwestern Distributors

Economy, Cleanliness and Durability All Combined in the

Moncrief

Warm Air Furnace

A few of the many good points of the MONCRIEF
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.

825-29 Long Avenue, N. W.
CLEVELAND, O.

Western Sales Agent
J. C. KIMMEL, 3314 E. 15th St.
Kansas City, Mo.

We Make It!

The BEST Air Drying Iron Enamel Made.

Try a 1-Dozen Case From Your Jobber

Nickel Plate Stove Polish Co.
CHICAGO.

Large 10 oz. Can.

ALL THE BEST FEATURES

CAST IRON FURNACE

—in—

Furnace Making have been embodied in our

All Cast Iron Furnaces

Absolutely Gas, Smoke and Dust Proof.

Simple, Durable and Powerful.

Water Heater may be introduced without drilling.

Write for printed matter of our complete line.

Walter S. Rait & Co.
211-213 Lake Street
Chicago, Ill.

It Will Pay You

TO ENTER THE

COMPETITION

FOR THE

$100.00 IN GOLD

OFFERED BY

The American Artisan

IN ITS ANNUAL

Prize Window Display Competition

Increase of Profit

can only be had by selling goods that have no competition.

The MUELLER All Cast, Double Radiator Furnace stands in a class of its own—has absolutely no competition as regards Quality, Amount of Direct Heating Surface, Economy and Durability.

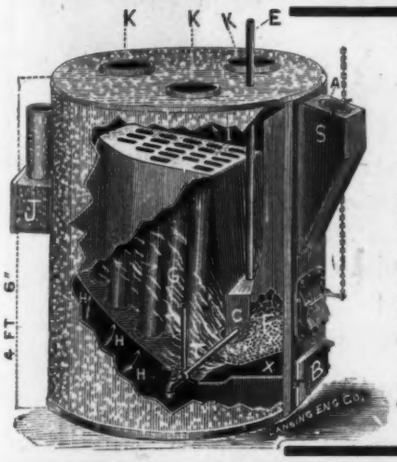
To sell the MUELLER means More Sales—Greater Profit.

The Exclusive Agency of the MUELLER will be of value to you. Do You Wish It? If so, WRITE AT ONCE.

L. J. MUELLER FURNACE COMPANY

ESTABLISHED 1857

191 REED STREET MILWAUKEE, WIS.



The Garner Smokeless Soft Coal Heater

burns soft coal without soot. No smoke nor gas in the house, nor soot in the chimney. The most powerful and economical furnace known. Operates on scientific principles. Made in 3 sizes. Heats with hot air only, or in combination with hot water. Will heat more air with less expense than any other heating device on the market. A magazine feed that gives the steadiest heat. The first one ordered by any responsible dealer may be returned to us in 30 days, if not as represented.

Write for Circulars and Prices. Agents Wanted Everywhere.

THE GARNER HEATING CO., Lansing, Mich.

SAVE THE SMOKE
There is MONEY in It

This is what your customer is looking for, something to save the smoke by burning it. Can you furnish it? Fuel raised to a red heat without a mixture of air enough to produce combustion disengages its carbon in a fine powder forming smoke, and this smoke passes up the chimney.

Green's Colonial Furnace and Green's Base Heater Furnace

are provided with slotted fire pots which allow the air (heated) to pass into and mix with the fuel and gases, and the oxygen thus introduced all around the pot (not cold air taken in at one point) ignites and burns the carbon, and the result is less smoke, less fuel and more heat. The body of the fuel is heated from the outside toward the center, the gases are expelled by the heat and immediately burned by the air which is coming in through the slots.

The ashes are always working down and out through the slots and the live fire comes in direct contact with the surface of the bowl, giving quick radiation. As all parts of the bowl are evenly heated one part does not become hotter than another, and the opportunity afforded for expansion and contraction makes this a very durable fire pot.

Write for our catalogue and discounts and secure the agency for a furnace you can sell and make a good profit.

GREEN FOUNDRY & FURNACE WORKS, Department A. Des Moines, Ia.

ANY SIZE ANY STYLE

But Only One Quality—THE BEST

THAT IS WHY THE

FLORAL CITY FURNACES

have occupied the proud position of leaders in furnace construction for years.

For **durability, economy, power** and **satisfactory service,** this line is without an equal, and as long as quality is considered, it is sure to retain its place at the head.

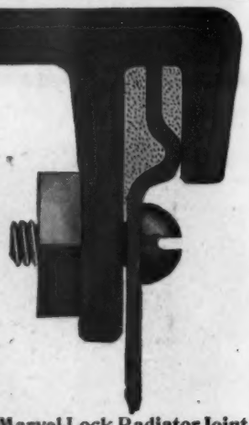
Write For Our Latest Catalogue.

MONROE FOUNDRY & FURNACE CO., MONROE, MICHIGAN.

MARVEL HEAT PRODUCERS

BETTER FURNACES

Hot Blast Over and Thru Fire Saves Fuel. Strongest Grate Ever Made. Fewer Joints and Parts. Many Exclusive Features of Merit.

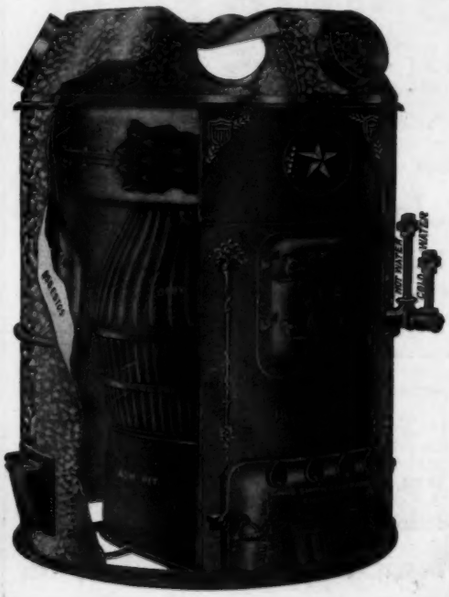


Marvel Lock Radiator Joint Absolutely Tight

Catalog for the asking. It shows all points

INTERSTATE MANUFACTURING COMPANY

OSKALOOSA, IOWA



The Hero Furnace

For any kind of Fuel

Showing Smith's Cleanable Water Heater

Cast or Steel Radiator.

Large Double Feed Doors.

Independent Grate Bars.

Everything an up-to-date furnace should have.

Catalog tells all about it, also about our

New Hero Boilers

CHAS. SMITH COMPANY

101 East Lake Street, CHICAGO, ILL.

Gilt Edge Badger Furnace

With Steel Plate Radiator

Designed to meet the wants of those desiring a furnace for burning hard coal exclusively.

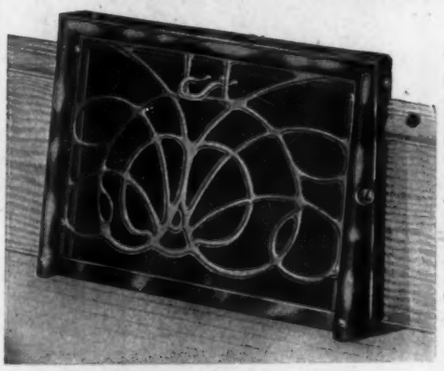
Combines all the features necessary to make it a most convenient, effectual and economical heater of high grade.

A Good Seller and a satisfactory producer. Made in four numbers.

R. J. SCHWAB & SONS CO., Milwaukee, Wis.

Catalogues on Application

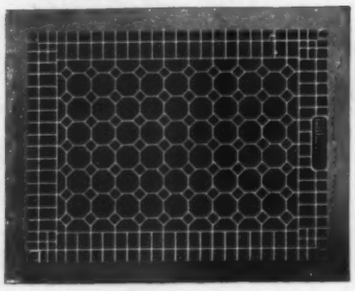
SEMI STEEL FLOOR REGISTERS



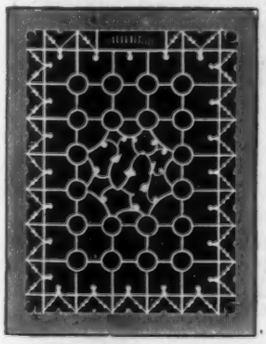
in all sizes and finishes. Neat in design, Strong, Light in Weight.

Mueller Wall Registers

both steel and cast, in various sizes and finishes, and with the most simple and durable operation. No parts to get out of order.



L. J. Mueller Furnace Co. Established 1857 **191 Reed St., Milwaukee, Wis.**



REGISTERS

NOT IN THE ASSOCIATION. OUR DISCOUNT 80 and 5%.

MAKERS OF ALL CAST WARM AIR REGISTERS, neat in design, and superior in finish, interchangeable with all first-class makes, and will wear a life-time.
Why buy the so-called Semi-Steel or Stamped Register? They are only imitations.
We are the largest makers of registers in the country. Our own foundry with molding capacity of 200 molders.
Get the Association's discount and compare it with ours. You will see how much we can save you.
We carry a large stock insuring prompt shipment.

STANDARD REGISTER COMPANY

Register Dept., Standard Foundry & Mfg. Co., CLEVELAND, OHIO

IT WILL PAY YOU to enter into Competition for the

$100.00 IN GOLD

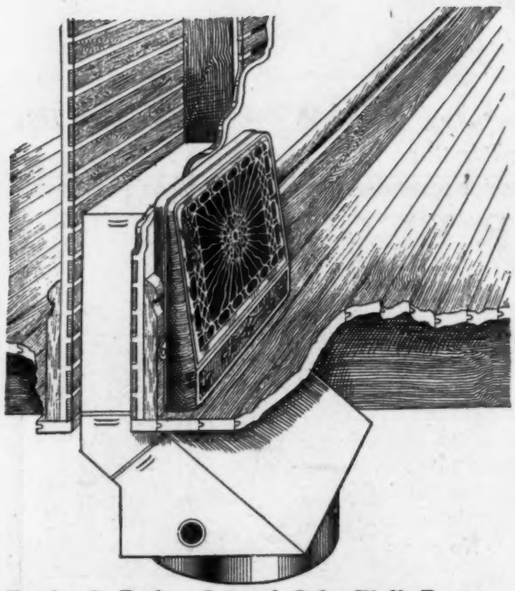
for the Annual Prize WINDOW Competition of The American Artisan.

The Handy Furnace Pipe

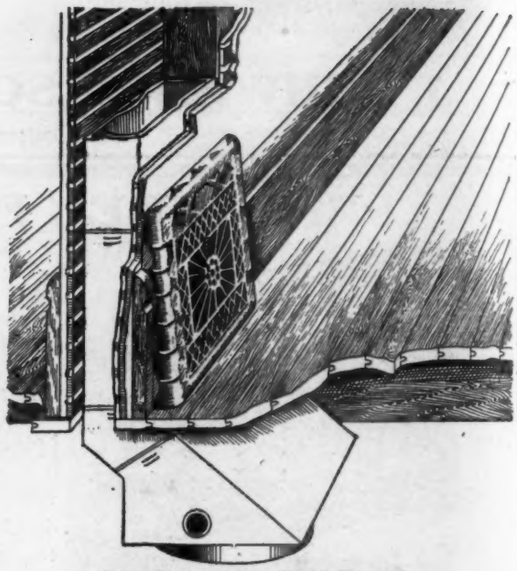
We Make Fittings for all the Leading Side Wall Registers

F. MEYER & BRO. CO.

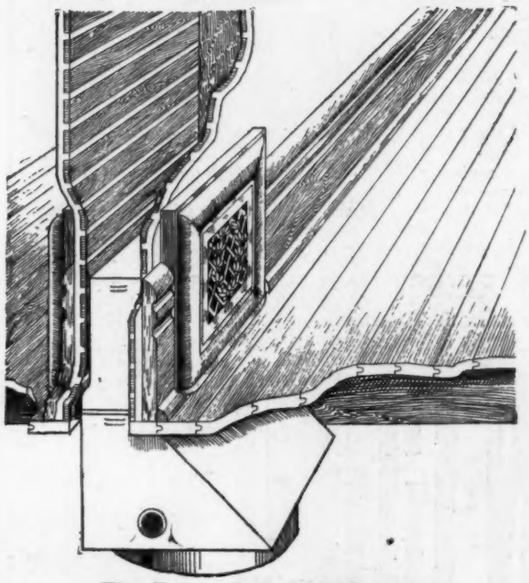
PEORIA, ILL.



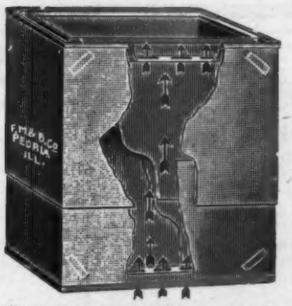
Tuttle & Bailey Special Side Wall Register With HANDY Fittings



The Jones Side Wall Register With HANDY Fittings



The Foster Side Wall Register.



The HANDY Adjustable Joint can be adjusted from 6½ to 12 inches. By cutting off, any length under 6½ inches can be obtained

No. 2 Stack Head for Side Wall Register

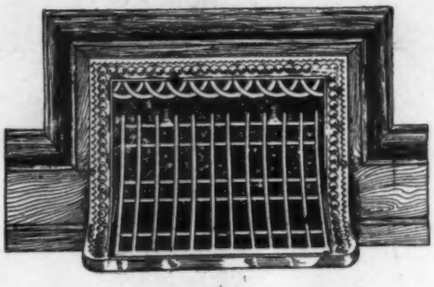
Foster's Wall Registers

F. MEYER & BRO. CO.

Peoria, Ill.

Make Fittings both Single and Double for my entire line of

Wall Registers



No. 55

Foster's Special

C. H. FOSTER

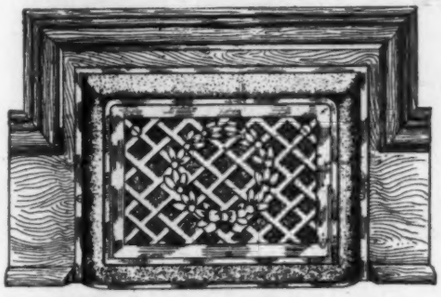
3403 Bell Ave.
ST. LOUIS, MO.

Maker of Greatest Variety Of

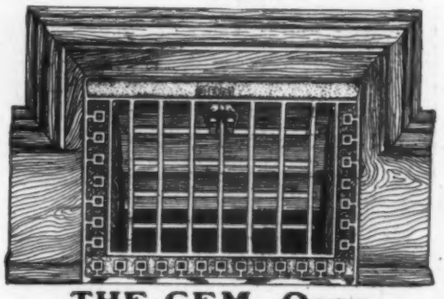
Wall Registers

The "Gem" Side Wall Register

For sale at a less price than any other Wall Register.
Has Large Air Flow.



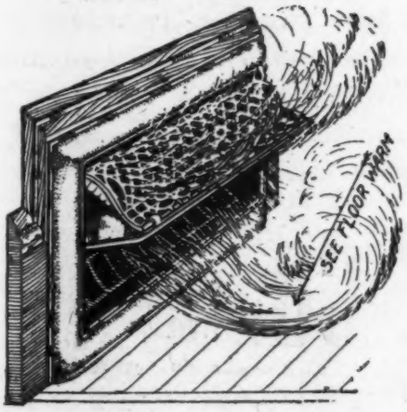
THE FOSTER—Closed



THE GEM—Open

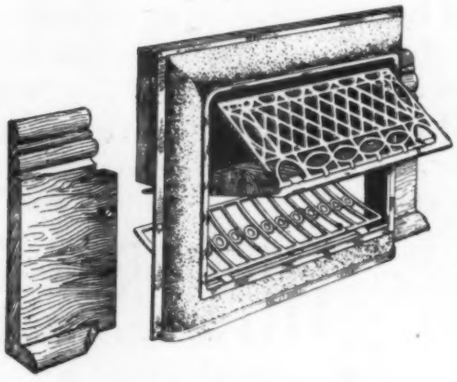
Showing base molding returned around Register box. A workmanlike way to install Side Wall Registers.

THE FOSTER



The only Register that deflects any portion of warm air onto the floor.

THE FOSTER



Register removed, showing manner of applying "0" Series.
The Gem "0" Series apply in same manner.

"QUICK MEAL" Evaporating Gasoline Stoves

Are now entering their seventeenth year of continuous success. This is the Stove that has established the Standard of High Quality and has passed all experimental stages. It has made a reputation for itself and will do likewise for the dealer who sells it. These stoves together with the "QUICK MEAL" Steel Ranges, make the only line that the dealer can advertise and push economically all seasons of the year, as both lines are made under one name and the one advertises the other.

RINGEN STOVE CO.

DIV. OF AMERICAN STOVE CO.

ST. LOUIS, MO.

SAN FRANCISCO, CAL. **Indiana St. Between 20th and 21st**

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES AND ITS POSSESSIONS. (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES INCLUDING CANADA, ONE YEAR, POSTAGE PAID, $4.00.
Address all Letters, Communications, and Remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
69 DEARBORN STREET, CHICAGO, ILL.

Entered as Second-Class Matter June 25, 1885, at the Post Office at Chicago Illinois, under Act of March 3rd, 1879.

THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, MARCH 7, 1908.

THE current week marks the anniversary of the departure from this life of Sidney P. Johnston, for many years the editor of THE AMERICAN ARTISAN, and in view of his long and valuable service as the editorial head of this publication and as a tribute to his sturdy, honest manhood, it is fitting that he should be thus remembered. He was a man of splendid parts. Honest to the core, strong but modest, diligent, observing, kind, just, considerate. His ability in his chosen field of endeavor found for him a generous recognition and drew about him a large circle of admiring friends, such as are rarely acquired through individual efforts of one man, no matter how directed. He was a man of vigor, of force, of diligence, of intelligence, of resourcefulness, and above all of character. He was a man.

Results of Association.

The strength of the hardware Association movements is again brought to mind by the increases shown in the memberships of the several state retail hardware associations that thus far have held their annual meetings this year. There is also apparent a closer knitting together of the units that make up the organizations that has been brought about by continued meeting and trade and social affiliations. The real strength lies in what each member may be brought to think of all others, and as is quite natural in all cases so it is in this case. The long period of mutual exchange of thought, experience and personal regard has ripened friendships and brought about mutual understandings touching trade matters that could have been brought about in no other way. Members have learned to think better of their associates and competitors and the regard in which they find themselves held by their neighbors strengthens each in better feelings of and higher regard for themselves. There is nothing so good for a lot of business men of identical interest as to meet and talk and compare notes and touch elbows with each other frequently.

A Home Trading Traitor.

The case of a certain Ohio retail hardware merchant is a peculiar one, and it serves to show how cheap one can hold himself in the matter of loyalty in home trading. His was a prosperous town, with a goodly lot of retail merchants in dry goods, groceries, shoes, harness, clothing, meats and furniture, besides his own hardware store. The trade of the town had been bitten into by catalogue houses, and in consequence a local home trading society was formed among the merchants, who pledged themselves to loyalty in the matter of home buying and to the use of their several and collective endeavors to extend the home trading gospel round-about for their mutual protection. No one in the party was, apparently, so loyal as the man of the hardware store, for he talked the longest and loudest against the mail order houses and howled the strongest when a customer was lost through the glittering fascinations of the catalogue house and the big picture book. But it was finally observed that many new things appeared in possession of the hardware family that might have been but were not bought at home, and investigation disclosed the fact that a great deal of the merchants trading in home necessities, was done by mail with the catalogue houses. Prompt and vigorous action was taken in the matter, and by reason of the associate action the trade of every other merchant in the town was promptly withdrawn from him, and their influence collectively was exerted to keep away from him the trade of all other residents until, by force of inactivity because of an almost utter absence of customers in the once prosperous store, and the advent of a new stock of hardware that was put into the town, the business of the home trading traitor went to the wall and collapsed ignominously. This was an example of good handling of a bad case. It is such a handling as should be meted out to many other merchants who are likewise guilty of this species of double dealing and treachery.

What About Wire?

IS IT always good business for manufacturers to allow patrons to dictate what shall be made for their purposes, regardless of the limit to which the commodity in question may be cheapened, impoverished and degraded, without bringing into serious disrepute the commodity considered and with this the possible ruin to the industry represented?

We ask this question having in mind the very important item of American wire, and perhaps more particularly American fencing wire, in its plain, barbed, painted, galvanized and woven forms, concerning which there is so very much serious general complaint as to lead to an altogether unavoidable conclusion that the American wire product is very far from being as good as it could and should be. The complaint against the quality of American fencing wire is not at all new. It has been going on for quite a long time and with an accumulative force it has grown louder and stronger until the rumblings of dis-

content have found voice in the American halls of Congress through the agency of Congressman Haugen of Iowa, who in a bill seeks to bring about the removal of a 45 per cent protective tariff that is now levied against foreign made wire to the end solely, as is stated, to provide American farmers and others with real wire that is good enough, honest enough, and enduring enough to be at least worth while; such wire as was made in this country and elsewhere only a comparatively few years ago.

The making of such wire is not a lost art. Other nations still make it and market it; then why not our own much vaunted wire masters? Our raw materials are in no wise faulty. Our workmen are noted the world over for their skill and intelligence, and our market for wire, and for fencing wire in particular, is surely wider, greater and more profitable than any other in the world. Why, then, is there a very general complaint about the seriously deteriorated quality of the wire that is available? As all the other governing conditions that apply are here considered and accounted for, there seems to remain but one place to attach the fault, and that is in the methods of the American wire makers. In the evidence of Congressman Haugen of Iowa, who represents the farmers, and in the very powerful testimony of the representative wire fence makers and other wire users of the country, shown in the series of communications to THE AMERICAN ARTISAN that are being exhibited in numbers in its issues, there is ample proof that the available wire not only has been poor for a long time, but that it is growing worse right along. There is something wrong; seriously and, no doubt, foolishly wrong. The deterioration of American wire is not by any means an accident nor a result of necessity, such an idea is wholly unworthy of consideration, hence, it must be deliberately and designedly wrong, and the wrong must be righted or the American wire industry will crumble like an egg shell as a result of a suicidal policy.

Are there two sides to this question? Certainly there are. On the one side are the manufacturers who make up and utilize the wire, who not unexpectedly and not unreasonably plead the nature of the competition that constantly confronts and menaces them in the matter of prices, and in extenuation they set forth the necessity of superior advantages in wire costs in order to keep afloat and hold and increase their trade; and where must these advantages come from? Largely out of the quality of the wire, of course. But this thing has been going on in all trades for centuries. It is a natural law of competition which, if necessary and possible and allowed to go on unchecked, must result in ruin for the reason that a stage of worthlessness must sooner or later be arrived at that will destroy the usefulness of any commodity so treated, and wholly compel its abandonment.

On the other side of the question are the American wire makers, whose sole extenuating plea, so far as we have learned, is that they are making wire according to specifications, or in other words, they are giving buyers what they ask for. No doubt they are, and in this would seem to be "the meat in the cocoanut." Have they a right to do this? We are not asking this question on moral grounds at all. We ask for a pure business reasoning of the situation as relates to present and prospective conditions of prosperity. Has the wire making industry of America a right to cut away all the bridges ahead of it by degrading its product and prostituting it at the behest of competing manufacturers who seek to destroy each other with weapons put into their hands at the fountain head? If so, where will it all end? How long will the consumer stand it? When will he repudiate the wire? And when he does repudiate it and turn to a substitute, what will become of the wire manufacturer and the wire maker?

The complaint against galvanized fencing wire, both in barb and plain conditions, it will be noted is so serious as to command attention and demand a remedy, for it is represented in all candor, and by experts whom we are not prepared to question, that in marketable galvanized wire the processes of galvanizing to the end of stinting the spelter covering, and the labor, have in too many cases amounted to almost a bare coloring of the wire that is practically worthless as a weather resistant which is its real purpose for outdoor uses such as is required in fencing in particular.

We do not pretend to say that there is no good American wire to be had. We are ready to concede that it can be had, and this belief finds confirmation in the statement already used to the effect that makers make whatever buyers demanded, but we are quite assured that there is much and too much exceedingly poor wire made and that conditions bring it altogether too universally into use.

There is a remedy for all this wire quality trouble, and no time should be lost in applying it. A cutting out of the unworthy product, a refusal to make it, and a grading up of minimum quality to standards that are positively worthy both in the wire and the coating, and a persistent refusal to go below the established standard would settle the whole matter and perpetuate the wire industry, and nothing else will. Price is a poor competitive measure. Quality is a far better one for all concerned. Quoting the lamented Lincoln, let us remind you that "You can fool all of the people some of the time; you can fool some of the people all the time, but you can't fool all of the people all of the time."

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

You can't always tell just how deep, shrewd and foxy your friend is until you put him up against it in something that requires genius and reserve, and if he gets away with it with complete success, you may mark him "It" in your private memorandums. My friend, Lockwood, sales manager and advertising director of the Ringen Stove Co., of St. Louis, is marked "It" all right in my memorandums for, although "Lock" has hosts of warm friends and is widely known in St. Louis business circles, he succeeded in fooling them all, and even his business associates

in the office were wholly in the dark until he handed it out to them.

* * *

For my friend Lockwood was quietly married to Miss Grace Heimburger of St. Louis on February 12, and then went away on a honeymoon trip to Montreal, Boston and elsewhere and returned to occupy his own home before he began to talk about it. He returned to St. Louis on March 2, and there's no one in St. Louis to say, "I told you so." "Lock" is all right and the trick was nicely turned. I fear we will have to watch him for the future.

* * *

As I went into the Claw Hammer Club the other afternoon a stray dog, a bright looking, glad eyed one crowded in past me and made for a big German saw tester who belongs at the saw works, and they hit up a quick friendship. The German patted him and caressed him and talked to him in a semi-soliloquizing manner thus: "You vos only a dog, but I vish I vos you. Ven you go mit der bed in, you shust durn round dree times and lay down. Ven I go mit der bed in, I haf to lock up de place und vind de clock und put the cat out und undress myself, und my vife vakes up and scols me, den de baby cries und I haf to valk him up and down, den maype ven I shust go to sleep, it's time to get up again. Ven you get up, you shust stretch yourself und scratch a couple of dimes, und you vos up. I haf to light der fire, put on der kettle, scrap mit my vife already, und maype got some breakfast. You play round all tay und haf plenty of fun. I haf to vork all tay und haf plenty of drouble. Ven you die you's dead; ven I die I haf to go to ???? yet."

* * *

The expert of the radiator plant greeted me on my arrival. I was glad to meet him, for he is out on big heating jobs a good deal of the time and I often miss him. He had just returned from Nebraska, where he had closed up a big church job that was put in last fall, and he brought with him a story that fitted into it. It was a good sized Catholic church which had been built and furnished piecemeal by contributions by the congregation. They collected for the lot, the structure, the bell, the furnishing, the organ and what not, and in these collections a fine old Irish member, known as Mike, always gave most liberally—he never failed to do so. But as the winter came on and coal was needed, he balked in the coal collection and wouldn't give a cent.

* * *

A little later the Priest, who liked Mike exceedingly well and admired his liberality, sought an explanation of the changed attitude and asked why he refused to help out on the forty tons of coal, and Mike said to him, "Your Riverence, I'm on to yees." "You're on to me, what do you mean?" "Well, I mean this, what do yees want wid forty tons of coal to heat the church when the church is heated wid steam?"

* * *

"Speaking about church collections," said the manager of the refrigerator works, "when I sold refrigerators on the road some years ago, I dropped into a little church out in a Minnesota town one Sunday, and when the service was about to close and they were about to take up the collection, some stranger with a plug hat beat the regular collectors to it by passing round his hat and he got all the collection and started for the door with it. Apparently, the real situation presented itself to the minister, for he rose and shouted, 'If that man leaves this church with that money, he'll be damned.' But he went out with the money just the same, and a little, old, dried up deacon piped up, 'Well, if he hasn't got away with the money, *I'll* be d——d.'"

* * *

The sales manager of the woodenware company asked me where the next annual convention of the Illinois Retail Hardware Association was to be held, and I told him Springfield, he said: "Springfield? That reminds me of a fellow up in Fond du Lac, Wisconsin, who was ahead of me at the depot ticket window who asked for a ticket for Springfield. When the ticket man asked him whether he wanted to go to Springfield, Mass., Springfield, O., Springfield, Mo., or Springfield, Ill., he asked which was the cheapest."

* * *

I have a picture here that is apt to fire the souls of the "trust busters" and those who are sore at the big money kings. It made a hit with me because it so faithfully portrays the manner in which the big ones are being jolted by our Teddy. It shows two things—

that the big ones are not beyond reach, and that when they get a good jolt they holler just like ordinary mortals.

* * *

He opened a dry goods store—dry goods failure.
He next tried the grocery business—grocery failure.
He went into hardware—hardware failure.
He opened a laundry—laundry failure.
He then tried clothing—clothing store failure.
He dropped dead—heart failure.—Judge.

News Siftings

The Co-operative Stove Works of Bloomington, Ill., whose plant has been closed down for some months, has resumed operation.

Mr. J. H. Kroberger, representing the March-Brownback Stove Co., of Pottstown, Pa., was among the recent callers at the office of THE AMERICAN ARTISAN.

A new line of stoves and gas ranges will be put upon the market by the Warren Stove Co. of Warren, O. The company which has for some time been engaged in equipping a foundry and manufacturing plant expects to have these goods ready for the summer trade.

The Detroit Stove Polish Co., of Detroit, Mich., offer "ebony stove polish" to stove manufacturers and dealers, put up in a manner intended entirely for their own uses, it being the company's intention to operate entirely on bulk goods for these uses and to make no effort to manufacture goods for retailing.

The Stitzell Stove Company, of Louisville, Ky., has been sold to Edw. D. White and Jos. S. McDevitt. The new owners propose to improve the plant by enlarging it and to increase its capacity and improve the business vigorously. Quite an amount of new machinery will enter into the new outtfi.

E. H. Mumford Company, of Philadelphia, Pa., has bought up the patent rights machines and equipment of Ph. Bonvillain and Eronceray in the United States. The line consists of molding machines, patterns, the process and everything relating thereto. The E. H. Mumford Company will remove its offices from 17th and Callowhill streets to 1350 Race street, where the French machines have heretofore been exhibited.

The Rockmart Stove & Foundry Company, formerly located in North Carolina, has been organized with a capital of $100,000 to do business at Augusta, Ga. It will be remembered that the city of Selma, Ala., was negotiating with this company a few months ago in an endeavor to induce it to locate at Selma. Better inducements, however, having been offered by Augusta it was determined to locate at that point. It is expected that the company will be in operation at a plant of its own at Augusta by the middle of the current year.

We have from C. N. Hooper of Dubuque, Ia., the vitreous enameling technologist manufacturing expert of Dubuque, Ia., a series of literature relating to comparative acetic acid tests of enameled sheet steel cooking ware which is made up into groups relating to 100 per cent, 50 to 60 per cent, 30 to 40 per cent, 15 to 20 per cent wares, which is very interesting and with this there is enclosed the statement of the makers of enameled ware in various sections of the country as to the value of Mr. Hooper's method and process. It is interesting reading.

A recent issue of the Pittsburg Gazette of Pittsburg, Pa., publishes a very nice portrait of Lieut. Col. Lewis Albert Anshutz, and with it an item calling attention to the fact of his having been appointed as division commissary of the National Guard of Pennsylvania. The sketch besides offering this statement follows in a biographical way back through the history of the gallant colonel in a complimentary way. Colonel Anschutz is well known to the stove trade of the country through his former connection with the stove manufacturing concern of Anschutz, Bradberry & Co., of Pittsburg, which business was later taken over and is now operated by the Stove & Range Company of Pittsburg, of Pittsburg, Pa.

An envelope size folder by F. M. Borden & Bro., of Philadelphia, Pa., is printed in brilliant red and illustrated. It relates to the National Steam Cooker, which is stated to be made of heavy block tin, and in a number of varieties as relates to capacities and sections. It is one of those cookers that cook entirely by steam and the folder advises us that with this device there may be cooked saur-kraut, onions, cabbage and pudding at the same time without any one of them partaking of the odor or flavor of the other. The National Steam Cooker seems to possess a number of advantages some of which are in the economy of fuel, the amount of stove space used, and numerous advantages of multiple food preparation at the same expense as one of the items.

There is a movement on foot in Pueblo, Colo., for the establishment of a stove manufacturing plant at that point, and it is stated that the business men's association of Pueblo has guaranteed a $15,000 bonus to the Collins & Burgie Stove Company, whose plant was destroyed at Marengo, Ill., a short time ago, to locate their factory at Pueblo. In consideration of the bonus the company is to agree to erect a plant at a cost of not less than $150,000, and to employ 50 men at the opening time and to increase the force to 175 men. It is stated that this offer has been accepted by the company and that it will begin at once to dismantle its Marengo plant and that within a period of 60 days the erection of the new plant for the company will be begun at Pueblo.

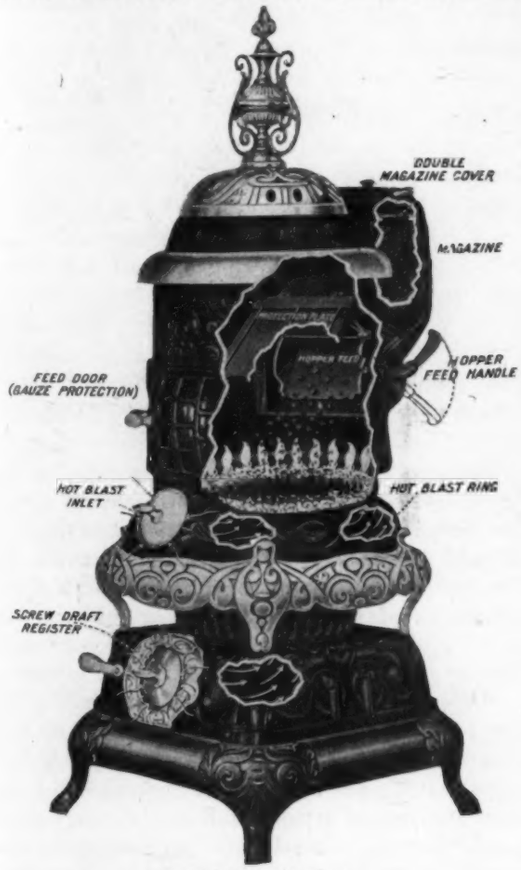
THEY TALK ABOUT THE STEEL THEY USE.

The Stove & Range Company of Pittsburg, Pa., tell us that their "Cinderella," "Good Luck" and "Tremont" Steel Ranges are made of the right kind of steel and we are altogether inclined to take their word for it because we happen to know them to be of the right order of manufacturers whose word is commonly as good as its bond. It continues to say "Being located in Pittsburg and in close touch with the steel mills and steel maker, we have every opportunity for knowing how to get the right kind of steel at the right price." We are advised that the steel used by the company in its steel ranges is made for them by the United Steel Corporation and it is claimed to be much superior to the ordinary commercial steel sheets ordinarily used in range making. This may be considered an important item in favor of the company's steel range products, of which there are offered a variety of patterns put up in the best type of modern steel range construction. The company has had very excellent success with these products, and in coming into the market with them for the season

of 1908, they advise us that they are coming fully equipped to take care of all requirements in the best possible manner. Some good trade literature that talks about stoves and ranges and furnaces and sheet steel in an entertaining way may be had from the company by addressing it as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

THE SUPREME PENINSULAR.

The Peninsular Stove Co. of Detroit, Mich., has in its new Supreme Peninsular heating stove, which is an original creation, a heater that bids fair to find a generous appreciation in the trade and it merits a favorable recognition among stove users generally. In its lines it partakes of both the oak and the square cast mica doored coal heater, though the typical lines are so nicely modified and blended into the structure as to an extent lose their identities in the crea-



Supreme Peninsular.

tion as a whole and afford lines that go to the creation of a new being.

In its working features the heater is distinctly original, and it gives evidence of practicability in directions that are wholly new. Two of the strikingly new features are in, first, a hot blast device in the form of a hollow ring surrounding the top of the firepot, which has a screw register inlet at the front. The ring throughout its entire extent is frequently pierced by slotted perforations. The entering air becoming highly heated in transit through the ring is forced upon the top of the fire and mixes at all points with the heavy gases at a time and at a place when its presence only is required to ignite and burn them completely and thus the purest, best and most efficacious of the heating elements of bituminous fuel is utilized perfectly for heating instead of being allowed not only to go to waste but to clog up chimney and flues generally. By this system the waste product becomes the chief heating factor and it is all consumed.

The Supreme Peninsular is a magazine stove, but not of the recognized order, with vertical central magazine burns at its base. Instead of this, as its second important feature, a capacious, wide-mouthed hopper is provided high up at the back and outside the general structure. It has a downward and inward inclined chute formation with a rigid interior swing cover and thus it retains its great charge of fuel wholly outside the stove until a lever is operated upon. By operating a feed lever the inner hopper cover is released and raised and a sufficient replenishment of fuel is automatically distributed over the surface of the fire. Thus we learn of the stove's action with soft coal, and it is said to work perfectly with all grades of this fuel. But it is also a thoroughly efficient hard coal burner, as the elimination of the air blast by closing the front screw register provides wholly correct conditions for anthracite consumption, as in the hopper feed no difference occurs and the surface of the fire is all exposed and is all clean fire. It also burns wood equally well. The heater is an attractive one exteriorly, with richly designed black iron plates and rich and ample nickel adornment, and it is strongly mica lighted on three of its faces. The grate equipment and its complement of modern conveniences are up to the hour in modern utility, and as a whole the heater is distinctly good and interesting. Illustrated literature may be had upon application to the company at Detroit, Chicago, or Buffalo. In writing kindly mention THE AMERICAN ARTISAN.

OUR DRUMMER.

Our Drummer for the Spring of 1908, which is catalogue No. 657, by Butler Bros. of Chicago, is presented in its customarily attractive form and in a revised condition which fits exactly the present time and the early future. It is a volume of 375 pages, 9½x14 inches in size and is a complete illustrated compendium of articles that are salable in stores of all kinds and the items comprise the regular merchandising commodities that begin and complete stocks of every character. The hardware merchant will find for his uses a large assortment of hardware goods that will be found quite to his liking both as to character, qualities and prices and upon most of which there will be found advantages in the shape of satisfactory bargains and this same condition not only applies to hardware merchants but to all other classes of merchants as it is the business of the Butler Bros. to equip stocks of all classes by mail order catalogue methods but they do not in any way cater to the consumer nor will they sell the consumer under any consideration. Every retail merchant should have a copy of this catalogue at his elbow at all times as it is a ready reference not only for the goods of the merchant's regular line, but it is also a ready reference to lines that may be at any time found desirable to handle. Copies will be sent to regular authorized retail merchants upon application.

The Hardware Record.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 38 to 43 inclusive.

Mr. Sam White of the White Lily Washing Machine Co. of Davenport, Ia., was among the recent callers at the office of THE AMERICAN ARTISAN.

On May 28 and 29, 1908, the Alabama Retail Hardware Association will go into convention at Montgomery, Ala. The program has not yet been arranged.

A new industry for the town has been started up in Teetertown, N. J., in the shape of a cutlery concern which will manufacture knives, forks and some other cutlery specialties.

A certificate of incorporation has been filed by the Draper & Hall Co., of Middletown, Conn., which is to manufacture tools and hardware specialties. The company will employ a capital of $5,000.

The Spiro Hardware Co. of Selma, Ala., recently incorporated, will continue the stove and roofing business and will add hardware to its regular line. They will add a factory and warehouse, for which a building has recently been erected.

The semiannual meeting of the Texas Hardware Jobbers' Association will be held in San Antonio, Tex., on April 17, 18, 19. An invitation has been extended to members of the American Hardware Manufacturers' Association to attend.

A new manufacturing plant has been started in Saginaw, Mich., which will have for its line the manufacture of fine pocket cutlery, table cutlery, surgeons' instruments and barbers' cutlery. The promoters of the company are H. Spies, of Mt. Clemens, Mich., and Theo. Eschlander, of Detroit.

The Hoernel Hardware Company, of Racine, Wis., has purchased a large factory building in Racine, formerly occupied by the Racine Shoe Company, in a portion of which there will be established by the Hoernel Hardware Company a tin manufacturing plant to be operated by power.

The Salt Lake Hardware Co., of Salt Lake City, Utah, has in process of erection a large five-story warehouse building which will cost about $100,000, and will be especially adapted to the uses to which it will be put. The building will be five stories high and will be conveniently located for the company's business.

The National Hardware Credit Men's Association whose annual convention was held at Davenport, Ia., elected the following officers: President, W. H. Thompson, Chicago; vice-presidents, Harry Gregg, Minneapolis; Chas. Campbell, St. Louis, and R. R Englehart, Davenport; secretary-treasurer, R. E. Tuttle, Chicago.

LaLance & Grosjean Mfg. Company, who on account of a recent fire have been temporarily located, took possession of their new offices in New York city at 299 Broadway, in the Barclay building at the corner of Duane street, on March 4. The many friends of the company will be welcomed at the new offices, which in many ways are more desirable than the old quarters heretofore occupied.

Mr. J. J. Mandelbaum, a director of the Southern Hardware Jobbers' Association, was in Hot Springs, Ark., on February 22, where he, in company with Secretary C. F. Cooley of the association, completed arrangements for entertaining the annual convention of the Southern Hardware Jobbers' Association on June 16, 17, 18 and 19. It is expected that there will be at least 500 delegates in attendance.

Representative Marshall of North Dakota has introduced in Congress a bill to prevent the manufacture, sale or transportation of adulterated or unlabeled paint, turpentine or linseed oil in the District of Columbia, or in any state or territory of the United States. The penalty clause of the bill provides that upon each conviction the guilty party may be fined not to exceed $500, or shall be sentenced to one year imprisonment, or both, and for each subsequent conviction shall be fined not less than $1,000, or sentenced to one year imprisonment, or both.

A meeting of the Executive Committee of the Hardware Jobbers' Association of Texas was held at Dallas on February 13. The session was of the executive order and little of its proceedings have been learned. We are advised, however, that it was arranged to hold the next annual meeting of the association at San Antonio on April 17-18. It was learned from attendance at the meeting that Texas hardware trade affairs are straightening themselves out into good shape and that some other encouraging conditions were brought out at the meeting.

"Diamond" adjustable spirit level plumbs are made the subject of a bright and good folder of envelope size with illustrations, by the Diamond Power Specialty Co., of 234-236 Fort street, W., Detroit, Mich. The folder states in connection with a mention of the advantages of the adjustable spirit level plumb of its manufacture that it can be attached to any straight edge by boring a plain round hole and mounting it therein and that it can be turned in any position in the hole and be secured by clamping screws, making it a stationary inclinometer, level or plumb. It is also stated that it takes the place of a plumb-bob and line when attached to a plumb rule and it is not affected by the wind as is the line. There are other advantages indicated for the device, which is a new one for its purposes.

The National Retail Hardware Association will hold its annual meeting in St. Louis, Mo., covering the dates of March 24 to 26, inclusive. Headquarters have been arranged for at the Planters' Hotel. The general arrangement for the event, which promises to be largely attended and to be a most interesting one from the hardware point of view and otherwise, are in the hands of the Business Men's League of St. Louis. It is expected that this convention will be a highly important one and the reports of its deliberations at this time will be looked forward to with unusual interest because of the importance of its associated matters, because of the position held by the association in hardware affairs generally, and be-

cause of the highly important position the association holds as related to the retail hardware trade.

A PERFECT SAFETY OIL CAN.

The accompanying illustration is of one of the pump equipped, heavy galvanized iron oil cans made by the Delphos Mfg. Co., of Delphos, O. This it will be understood is but a single sample taken from a very large line of cans for like purposes made by the company. The peculiar merits of this item of manufacture lie in the fact that in the first place the can itself is a thoroughly well made one being turned out of heavy galvanized iron with IXX tin breast and cover. This type of can is made in 2, 3 and 5-gallon capacities and every feature of its production is in all points looked after carefully so carefully indeed that it is almost an unknown thing for a leaky, or in any way imperfect can, to ever get out of the factory. The pump device is an original one with the makers and its construction is such as makes it impossible for it to overflow under any condition or to overfill a lamp or other receptacle that is being charged with the fluid by the pump. The device by which this is accomplished is a most clever one and has made for the company a wonderful reputation along the lines of oil can manufacture. The illustration herewith depicts the process of filling a lamp as this process actually appears in practice. The goods are found to be exceptionally desirable ones by the trade and are known to be wonderful sellers. A very good catalogue by the company illustrates and describes a great many types of oil cans, oil tanks, and tanks and cans for many other purposes, all of which are of the same high character as the one here shown. Copies of this catalogue may be had upon application by addressing the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

A NEW MARLIN REPEATING SHOT GUN.

The Marlin Fire Arms Company of New Haven, Conn., announces a new model of repeating shotgun which is indicated as No. 24. It is of grade A 12 gauge, take-down six shot pattern, and a very good illustration of it which is sent to us indicates a beauty of outline and perfection of proportion that is altogether inviting. The No. 24 is said to represent simplicity and strength of mechanism and other up-to-date features that commend it most highly. The No. 24 is said to have one-third less parts than any other make of repeating shot gun and the working parts engage directly with one another without intervening links or complications. Extra strength has been given to the several parts and there is said to be no weak spot in the entire gun. In this model the safety construction of the company's former model is improved and perfected. The extra sear in the lock prevents the hammer from falling in event of the trigger being pulled while the action is unlocked and a horn on the locking bolt holds the firing pin back so that it cannot reach the primer and thus the action is closed and locked securely. The take-down construction shows some desirable improvements and seems to be practically perfect.

There are many new and original features used in connection with this arm and a very excellent illustrated circular is issued relating to it. Copies may be had upon application to the address above indicated. When writing kindly mention THE AMERICAN ARTISAN.

Marlin No. 24.

COLDWELL LAWN MOWERS.

A very good catalogue of lawn mowers is by the Coldwell Lawn Mower Co., of Newburgh, N. Y. It relates of course to Coldwell lawn mowers entirely, and these in their severalty are very nicely displayed by vignetted half-tone illustrations to the number of eighteen different patterns throughout the work. In the arrangement of the volume, upon each left-hand page there appears a nice large square panel containing an illustration of a single pattern of lawn mower, together with its title, and beneath this the sizes, numbers, dimensions and prices are quoted. Upon the opposing page all the details that are seemingly necessary for the information relating to the machine upon the other page are briefly but completely given in comprehensive form. This process of arrangement continues throughout the entire work and it is a very good arrangement. Two of the opening pages of the work display respectively an excellent portrait of Thos. Coldwell, the founder of the company and the company's factory plant at Newburgh, whose floor space is stated to be 65,000 square feet and capacity 700 mowers per day. The catalogue is 7½ x 5½ inches in size and is of permanent character, it being bound in a rich mottled green cover with impressed silver lettering and embellishment for its outside title page. The catalogue is splendidly printed, the illustrations are unusually good and the quality of the paper is such as should be used in a good catalogue of this kind. Accompanying the catalogue is a well-printed special circular relating to a motor lawn mower designed for use in parks and large estates where there is much

grass cutting to be done. It is a very attractive item, being of the automobile type, with large heavy rollers instead of the inflated wheels, and these are wide and are planned for lawn rolling. Catalogues may be had upon application by the trade. When writing kindly mention THE AMERICAN ARTISAN.

$100.00 FOR HARDWARE WINDOWS.

The examination of the photographs of hardware display windows that have been entered in THE AMERICAN ARTISAN'S prize contest will be made at noon on April 1, 1908. At that time the decision will be made by the committee on examination, as to whom will go the cash prizes as awards of merit and the awarding of the prizes will be made directly afterward. It will be noted that the time remaining in which to enter the contest is brief, although there is still sufficient time for entries to be made by hardware dealers who will go about it promptly and actively. We are pleased to learn directly from a number of hardware dealers who have entered the contest and have submitted their photographs in accordance with the established terms, that the experience they have gained in their efforts to secure satisfactory windows to be entered in the contest has been of more value to them than almost any other store experience they had had, and with this testimony there comes in many instances the direct acknowledgment that what had been gained in sales because of the initial efforts in the direction indicated had been altogether surprising. Remember that the contest closes at noon on April 1st next, and that it will be impossible to enter the contest after that time.

A FENCE WIRE COMPLAINT.

Advices from Washington, D. C., to THE AMERICA ARTISAN state that a bill seeking the removal of the duty of 45 per cent upon barbed or woven wire has been introduced in Congress by Representative Haugen of Iowa. Mr. Haugen, it is stated, claims to have the support of the Secretary of Agriculture in an effort to bring the fence wire trust to terms and insure a better quality of wire for the farmers of the United States. He is said to have stated that the farmers complain of the quality of wire rather than its price, and asserts that fence wire now used on American farms is brittle and short lived and that as a result the maverick population is growing on the western plains and stock are straying from one ranch to another.

The abolition of the duty, he believes, will result in a better class of wire being turned out in this country in order to meet foreign competition.

The foregoing item was published in THE AMERICAN ARTISAN under the date of February 22, since which time there have come to us numerous letters from wire and fencing concerns that seem to have a distinct bearing upon the subject and are therefore interesting in this connection. We take pleasure in submitting herewith extracts from them:

The Frost Wire Fence Co. writes:

Regarding the quality of wire now produced in the United States for fencing purposes, will say, that in our opinion it does not compare with the wire produced eight to fifteen years ago.

Hundreds of our agents have reported that the galvanizing is not satisfactory. We know this to be a fact, from personal observation. Possibly the removing of the duty on plain annealed, as well as galvanized wire, will remedy matters more than anything else, as it will enable the smaller manufacturers to buy better goods at satisfactory prices, from foreign manufacturers.

Yours very truly,

Cleveland, O., Feb. 24, 1908. M. H. FROST.

Adams Steel & Wire Co. writes:

We would say that while it is unquestionably true that the quality of woven and barbed wire fencing is not as good as it should be, the main reason, we take it, is that the parties using fencing as a rule are not willing to pay for the better class of goods and insist on buying the cheapest to be had, so that where one manufacturer puts up goods, first-class in every respect, and consequently has to charge a higher price for the same, the consumer will almost invariably go to the next dealer and buy the cheapest class of goods. This, of course, makes the quality poorer, and until the consumer is willing to pay for first-class material, there is no remedy that we can see. It is simply a case of supply and demand. The consumer demands something cheap and the manufacturer furnishes it.

Very respectfully,

ADAM'S STEEL & WIRE WORKS,

Joliet, Ill., Feb. 24, 1908. W. J. Adam, Pres.

The Crawfordsville Wire & Nail Co. writes:

While galvanized wire will not stand for galvanizing as it did several years ago, the consumers, or users, are to a large extent to blame for the present condition. They were "eternally harping" for cheap wire, and in order to cheapen the wire we had to cheapen the galvanizing.

When galvanized wire was first made it was drawn through a sand wipe and would get a very heavy coat of spelter, while at the present time an asbestos wipe is used, and also a lever wipe. The lever wipe takes off the greater amount of spelter that the wire takes on going through the spelter pan, while with the asbestos wipe the galvanizing is some heavier.

We think that you will also find that the small manufacturers who do not care for a large tonnage are turning out a better grade of wire than the big mills. We have had no complaint on our product, and owing to the fact that our mill runs twenty-three hours out of twenty-four the year round is surely proof that the material is all right.

We cannot see that the 45 per cent duty off wire fence would help out in any way, as the foreign make of wire is not any better than the wire made in this country, and the removal of the duty would only tend to lower the wages of the laboring man, as we think the manufacturers would try to secure as much out of their products as they are at the present time. Yours truly,

CRAWFORDSVILLE WIRE & NAIL CO.,

C. D. Voris, General Manager.

Crawfordsville, Ind., Feb. 24, 1908.

The Up-To-Date Mfg. Co. writes:

In our opinion the removal of duty on wire in the U. S. is about the only thing that will ever get us back to a good grade of galvanized wire. We do not make wire, but we use a great deal of it, and we have tried everything in our power to get a good grade. We even offer to pay a premium on extra galvanizing if we can get it, and in cases where we have paid it we find when we get the wire that there is not much difference between it and the other wire.

We only wish that the congressmen of our country would get in line with Mr. Haugen and support this bill. The time was that you could get good galvanized wire, that the galvanizing would last for years, but it seems now impossible to get any kind of wire that the galvanizing will last over 4 or 5 years and some not that. Wire manufacturers claim it is on account of the price they have to make on it that they have to galvanize it so thin that it does not last longer, but the writer has been connected with the fence business for over 20 years and has bought wire for less price than we are paying to-day and got a great deal better quality. There is

not much question in my mind but what they make better wire abroad than in the U. S., but the duty makes it impossible to import it. We think it is high time for the American representatives and Secretary of Agriculture to take this matter in hand and see what they can do with it.

It is true that competition is very strong, but it is also true that the wire trust will sell their wire fence ready made for practically the same price that they will sell manufacturers the wire to make it with. To make a long story short, we would be in favor of taking the duty off of everything that enters into the manufacture of wire fences, and then after you have done that, take the duty off the fence itself, in fact give the American farmer his fence at the very lowest possible price.

There is not many who stop to think about it, but the fencing in the U. S. costs several hundred millions of dollars, or more than all the live stock in it is worth, and when you think that the farmer has to replace this fence about every ten years it is easy to see what a hardship it works on him.

Yours truly,

UP-TO-DATE MFG. CO.,
J. H. Srofe, Pres. and Mgr.

Terre Haute, Ind., Feb. 24, 1908.

A middle West fence manufacturing company writes:

We do not think that the galvanizing is done as well as it was fifteen or twenty years ago, and we have some complaints on account of the wire rusting. We hope the mills will turn out a better quality, although at the low prices at which wire is now sold we do not suppose they can afford to make it much better.

PULLMAN COMPANY'S PRIZE CONTEST.

The Pullman Manufacturing Company of Rochester, N. Y., has in operation a prize award proposition in which it will give away $750.00 free to its patrons upon a plan that looks altogether inviting. The highest prize to be awarded is $100.00 in cash and the balance of the aggregate amount is to be divided in numerous smaller but yet very generous amounts to go to a large number of winners in the contest. Every retail hardware dealer who handles the company's goods is eligible to the contest and naturally each one has a fairly equal opportunity to pick off the big prize or one of the following ones. The terms of the contest relate to the sale of certain articles made by the company, a complete understanding of which may be had promptly by addressing the Pullman Manufacturing Company, Sophia street, Rochester, N. Y.

Missouri Retail Hardware Association

The annual convention of the Missouri Retail Hardware Association was held in St. Louis, at the Mercantile Club, covering the dates of February 27 and 28.

The meeting was opened Thursday with prayer, and President W. H. Hahn of the association welcomed the delegates in an address which, in continuation, led into the president's annual address. In this the affairs and purposes of the association were considered. He referred to the embarrassment in which the association has found itself by reason of the illness of the former secretary, and because of the irregularities that had occurred in the secretary's office. Among other things the president dwelt upon the subject of the Parcels Post and praised the work that the hardware associations have done in the direction of preventing the passage of the measure by the 60th Congress. His address was an excellent one from an association standpoint, it having gone into the important branches of the association work quite thoroughly.

Secretary Kansteiner reported a highly unsatisfactory condition of affairs as related to the time in which he took up the work of the office. He reported 22 new members having been added to the association since he had taken charge of the work, and in a general way his report showed a greatly benefited state of affairs since his induction into the secretaryship.

On behalf of the executive committee it was reported that the books and the papers of former secretaries had been gone over at a meeting in St. Joseph, Missouri, on August 15th, and that at that time the former secretary's affairs were straightened out as far as was found to be practicable. The committee suggested some changes in the by-laws of the association which would provide for the election of the secretary instead of continuing the office as an appointive one. The committee reported that the insurance of members had, according to directions, given at the last session of the association, been reinsured in the Minnesota Mutual Fire Insurance Association.

The convention was more or less informal in many of its proceedings, the attendance was not so large as had been expected, but a very keen interest was manifested in the proceedings by those present. Much time was given to general discussions of miscellaneous matters relating to the association's business and to the conditions of the hardware trade in general. A report of the committee on the Boston national convention was presented in its regular order, following which Mr. J. A. Feffer, of the Parrish Erickson Company of St. Joseph, in a bright and interesting speech, full of live ideas and live suggestions, proceeded to wake up the convention. The speech was an excellent one and was very well received.

The president then announced these committees: On Resolutions, R. D. Quisenberry, L. A. Pauley and M. Wengert; on Press, F. R. Hauss and F. D. Kansteiner; on Auditing, W. T. Shoop, T. Frier and O. W. Johnson; on Nominating, M. C. Post, John T. Cochran, A. C. Albers. Following the appointment of the committee the meeting adjourned to the afternoon.

Following the opening exercises of the afternoon session the president introduced Mr. W. G. Simmons, of the Simmons Hardware Company. Mr. Simmons then addressed the meeting. In his address he spoke of the pleasure it gave him to welcome the members of the association to St. Louis, and he referred to the unusual business situation that had presented itself throughout the country with the opening of the current year. He spoke of the greatness and the progress of St. Louis as a city and as a distributing center, and cited its steady growth in business affairs. In his speech he made reference to the other wholesale hardware men of the city and complimented them upon the part that they had taken in the direction of making the city of St. Louis a wonderful hardware center. Others of the wholesale hardware men of St. Louis

spoke briefly upon hardware and association topics, and the convention adjourned for the day.

On Thursday evening a banquet was tendered to the delegates and visitors by the St. Louis Retail Hardware Association at the Mercantile Club. Mr. R. H. Myers, of St. Louis, was the toastmaster.

Talks were made by President Hahn, M. L. Corey, Argos, Ind., secretary of the National Association; Vice President A. T. Stebbins, Rochester, Minn.; J. E. Smith, E. H. Simmons, O. B. Gordon, R. L. Morton, John Payne, F. P. Hauss, F. D. Kansteiner, H. Kent, St. Louis; J. G. Weber, Clayton; Taylor Frazer, Louisiana, Mo.; W. T. Shoop, Richmond, Mo.; O. W. Johnston, Marshall; J. A. Peffer, St. Joseph; M. A. Wengert, Kansas City.

At Friday morning session, following the opening preliminaries and some general talk among the officers and delegates, President S. R. Miles of the National Hardware Association was introduced and addressed the convention. Mr. Miles said that he was sorry the association was not represented in a larger attendance at the meeting, and stated his belief that the future would bring about a beneficial state of affairs to the association and an increased membership. Mr. Miles urged hard and systematic work for the upbuilding of the association, and set forth the advantages that would accrue to all concerned by more generous outpouring of the trade in conventions of this character. He cited the present condition of the Ohio Retail Hardware Association with its 900 to 1,000 members, and stated that over 800 members were present at the recent annual meeting in Columbus. He commended the hardware insurance companies and spoke of their wonderful success, and stated that much of the phenomenal success that was had at Ohio in its hardware association had been brought about through the popularity of its insurance feature. He referred to the success of the North Dakota Retail Hardware Association, and stated that in this case more than 85 per cent of all the hardware dealers in the state of North Dakota was members of its retail hardware association.

The catalogue house question engaged Mr. Miles' attention to a very considerable extent and, as the members were all interested in this subject, upon which Mr. Miles is so thoroughly well informed, the topic became a most interesting one to all present. He told of the work that the National Hardware Association had been doing in relation to catalogue house matters, and made it very plain that much progress had been made along the lines of protection for retail hardware men against the encroachment of the catalogue houses.

Vice President A. T. Stebbins, of the Minnesota Retail Hardware Dealers' Association, talked to the convention about the parcels post proposition and made a plea for loyalty of the hardware dealers in the matter of home buying. He also spoke upon the subject of the Minnesota Mutual Fire Insurance Association with which he is officially connected, and set forth encouraging propositions for consideration of the delegates at the meeting. The address was a bright and pleasing one and awakened a great amount of interest.

Addresses were made by H. L. McNamara, M. L. Corey and others, and Vice President Williams spoke upon the topic, "What Good Has the Association Done Me." This was one of the best addresses delivered to the association, and Mr. Williams was highly complimented upon it.

On Friday afternoon the several committees' reports were heard and the committee on resolutions offered the following resolutions:

Whereas, The St. Louis hardware brethren have again so royally entertained us, be it

Resolved, That we find words insufficient to express our gratitude for their entertainment and hospitality.

Resolved, That we approve of the work of the national association and feel deeply gratified in having its officers here, and again pledge our hearty support in its undertakings.

Resolved, That the association express its opposition to the parcels post bill and earnestly request the co-operation of each and every member with the national association in working for its defeat.

Resolved, That we tender our thanks and appreciation of the unselfish labor of our state officers.

Resolved, That we tender our thanks to the trade press, local press and representatives of the jobbing and manufacturing interests of the city in their hearty co-operation in our efforts.

Resolved, That we extend our thanks to F. P. Haus for his untiring work in our behalf, he having been with us at every meeting since our organization.

Resolved, That we tender our thanks to the Mercantile Club for the courtesy shown us during our sessions.

The following officers were then chosen: President, O. W. Johnson, Marshall; Vice President, R. H. Meyers, St. Louis; Secretary-Treasurer, F. D Kansteiner, St. Louis.

Pennsylvania Retail Hardware Association

The Seventh Annual Convention of the Pennsylvania Retail Hardware Dealers' Association was held at Cambridge Springs, Pa., at the Rider Hotel covering the dates of March 3-5.

The opening session included an informal reception of members and guests at the Rider Hotel.

The afternoon session opened promptly at 1 p. m., and after the usual opening formalities, which included the calling of the roll, the enrollment of new members, the payment of dues and the appointment of committees, the president delivered his annual address.

THE PRESIDENT'S ADDRESS.

President Kaufman in his address called attention to the purposes of the association and to the rights and privileges of members of the association under the rules of the organization. He urged that every member should be alert and active and to always keep in mind the interests of the association and to work for its prosperity. He took up the matter of "Classification" and the needs of a line of distinction between the regular legitimate hardware merchants and others

who, although engaged in the hardware business, are not entitled to classifications upon the same lines as the regular retail hardware dealers, and stated that he believed that a line of distinction should be sharply drawn between retailers and the jobbers of hardware.

In the matter of "Unification," he urged concerted action upon all matters relating to legislation favorable to the association, including such legislation as will be found necessary to the end of operating against the Parcels Post proposition and other matters, and called attention to the power and strength of the organization in such matters when exerted in united form to a given end. He stated that the hardware interest in intelligence and intellectuality stood high in the ranks of business men. He thanked the officers for their fidelity and activity during the year past and made a plea for continued effort by the officers and by members generally and the devotion of more time to the affairs of the association not only in the conventions but outside of the conventions throughout the year.

Referring to the convention itself and noting the difficulties that had been encountered in arranging a place for its holding he laid the blame for these difficulties to an apathy and lack of interest in the association's affairs and to a consequent difficulty in settling upon a suitable place for the holding of the convention where its delegates and guests could be properly entertained and in conclusion along these lines said, "It does seem to me, however, that the logical place for the annual meeting of this association would be at the great metropolis of the state, Philadelphia," and asked that this matter be given due consideration at this convention.

As to matters of privilege he stated his wish that those present should remember that the convention was not one of officials or of a few but was a convention in which all were equally responsible for its success or for its failure and asked his hearers to exercise their privilege in this direction and to make the Seventh Annual Convention the very best one ever held by the Pennsylvania Retail Hardware Association, and to this end to consider with matured judgment the enactment of such measures as would be brought before the convention for consideration at this meeting. Among other things he recommended that it be made a rule of the association that its officers should have their books and accounts ready to place in the hands of the auditing committee at the adjournment of the first business session of each convention and that the auditors should include in their reports the number of members whose dues are fully paid and also a statement of the number of members in arrears and the amount of their arrears and that in future the bills against the association be paid only on orders authorized by the Executive Committee duly signed by the president and countersigned by the secretary of the association.

Following the president's address the reports of the secretary and the treasurer were heard and the committees submitted their reports.

WEDNESDAY.

The session of Wednesday morning was an open one. After the usual opening preliminaries Col. Flood of Meadville delivered an address of welcome to the delegates, which was responded to by President Kaufman. Beyond this the program called for addresses by Mr. James T. Fernley, Secretary-Treasurer of the National Jobbing Association; Mr. R. R. William, and "Remarks" by Mr. Harvey J. Fueller.

In the afternoon session, which was an executive one and was called to order at 2 p. m., addresses and papers were heard, one of which relating to the matter of insurance by W. P. Lewis, secretary of the Hardware Dealers' Mutual Fire Insurance Association of Pennsylvania, and of the National Hardware Mutual Fire Insurance Co.

The Question Box was an interesting feature of the session. After the Question Box the meeting adjourned.

THURSDAY.

The morning session opened with an address by Mr. Harvey J. Fueller of Philadelphia upon "The Master Sheet Metal Worker as a Business Man," and concluded with the election of officers.

The afternoon session opened up with a very interesting paper by Geo. B. Thompson of Mt. Jewt, Pa., and after the usual adjustment of general business and referred considerations the convention adjourned.

On Thursday evening a splendid banquet was tentered to the delegates and guests in the hotel banquet hall, which was a splendid affair in all respects and which everyone enjoyed. The banquet features were set from 8:30 to 11:00 p. m., following which a dancing program was arranged to begin at 11:00 and to continue into the small hours of the morning.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Lockhart, Tex.—Masur Hardware Company incorporated with a capital stock of $20,000.

Petersburg, Va.—Chas. Leonard Hardware Company incorporated with $50,000 capital stock.

Buffalo, N. Y.—The McGraw Hardware Company incorporated with a capital stock of $12,000.

BUSINESS CHANGES.

Bonaparte, Mo.—E. A. Rea has sold his hardware store.

Princeville, Ill.—The hardware and implement firm of Christopher & Ashbaugh dissolved partnership, George Christopher continuing the business.

Wittenberg, Wis.—Henry F. Meyer has purchased an interest in the hardware business of U. A. Cheeseman.

Athens, O.—Henry Allen, together with the Carpenter Hardware Company, purchased the G. A. Kurtz Hardware Store.

Du Quoin, Ill.—Mr. Geo. H. Mayer has disposed of his hardware store to Capt. Chas. Rohrbaugh.

Mt. Pleasant, Ia.—John Brandel recently bought the hardware formerly owned by A. V. Beaman.

Fisher, Ill.—E. H. Kelley has sold his hardware stock to Daniel Gerber, H. L. Sunderland and Henry Bohn.

Dubuque, Ia.—G. R. White has sold his hardware store to B. Coyle.

Two Harbors, Minn.—C. W. Shoop has purchased the stock in the Two Harbors Hardware Company held by Alfred L. Johnson.

MISCELLANEOUS.

Hampton, Va.—The hardware store of Mrs. Ellen E. Holland was damaged by fire.

Minneapolis, Minn.—The Bousfield Woodenware Company suffered a loss of about $8,000, due to fire.

Eddyville, N. Y.—The hardware store of Elting Longyear has been destroyed by fire.

Advertising Department

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

The fact that we are answering directly by letter many inquiries relating to advertising methods along the lines of retail hardware endeavor, gives evidence that the work of this department is creating a gratifying amount of interest among retail merchants. In this direction we find that the communications received relating to local advertising are not inclined to stop at inquiries concerning suitable forms, but they are more than ever leading into inquiries concerning theories that will apply to local advertising work. We are very glad to find this to be the case, for the reason that it indicates a deeper concern in the direction of hardware store advertising locally than has prevailed heretofore. We are here submitting some very good examples which we trust will meet with good results in the way of interesting THE AMERICAN ARTISAN'S readers.

* * *

Streeter's advertisement of new and second hand house furnishings is one that no doubt has served its purpose as the story that Streeter wished to tell is apparently all told and in a manner that is inviting. The printer has done very well in putting the ad into type except in the matter of the illustration in which the word "hardware" is thrown badly out of line and therefore the symmetry of the advertisement is to an extent injured, and in addition to this the electrotype

is not squarely mounted and therefore two lines that are supposed to be parallel in the advertisement are not parallel. The type arrangement is fair, the rule work is very cleverly done and the dark bordering rule is properly mortised at the corners, but unfortunately in the lock-up of the advertisement the border rule has not been suitably treated and as will be seen there are rough gaps all through it even at the mitered corners, and Mr. Streetor should, we think, have had the name of his town at least in the advertisement. This advertisement appeared in the *Daily Monitor* of Streator, Ill., where it occupied five inches double column.

* * *

A pre-inventory sale advertisement by the Western Hardware & Arms Co., is a good example of hardware store advertising. Its text is well prepared, and the division of subjects by which especial attention is

in each case given to the Flora Steel Range, the Charm Cast Cook Stove, the Perfection Oil Heater, the Union Hub Gas Stove, the Nesco Gas Heater and the granite ware avoids a confusion of the subjects and holds the readers' attention to the one item for the time being. To this extent it is a well arranged advertisement. The type selections could hardly be bettered under the circumstances. The compositor's work may be said to be altogether satisfactory and the border work is clean and good. It is a very fair example of hardware advertising and one from which many advertisers may get good pointers. This advertisement occupied 11 inches three columns wide in the *Los Angeles* (Cal.) *Examiner*.

The Louisville Axe & Tool Co. of Louisville, Ky., has been incorporated with a capital of $40.000. The incorporators are J. D. Augustus, D. F. Fitch, J. A. Stewart, W. A. Sager.

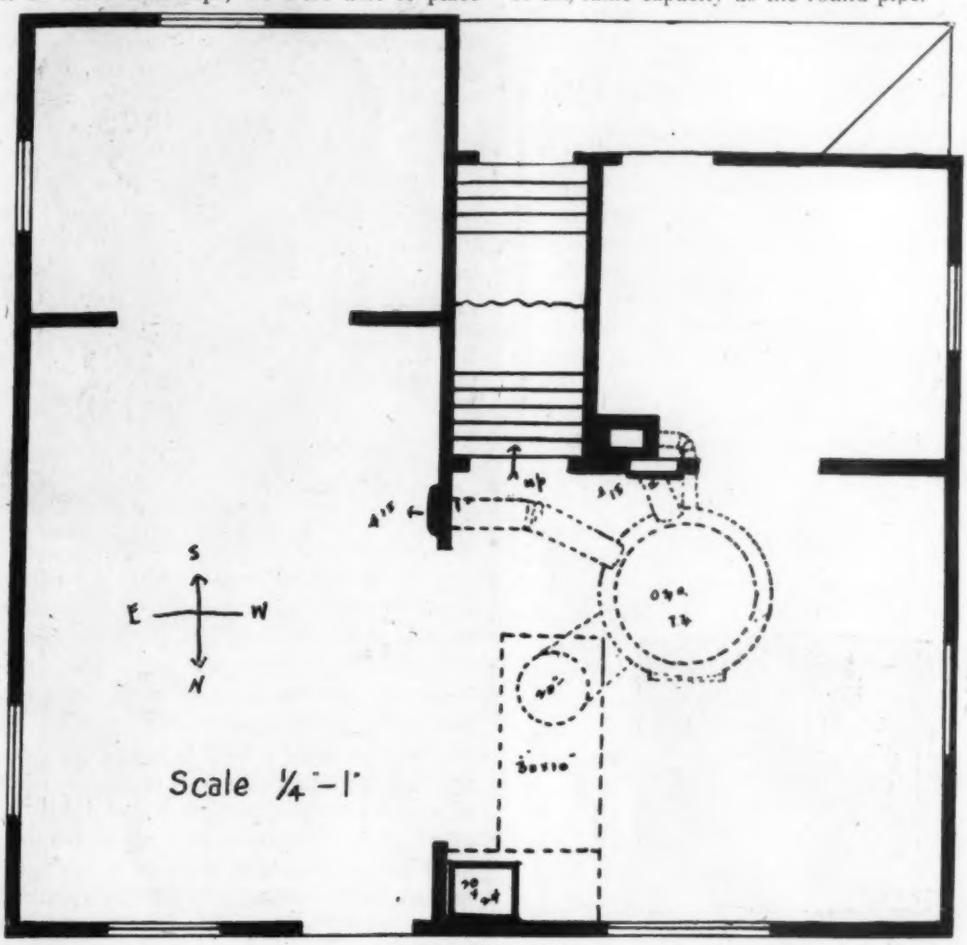
Heating and Ventilating

HEATING PLANT FOR A SMALL COTTAGE.

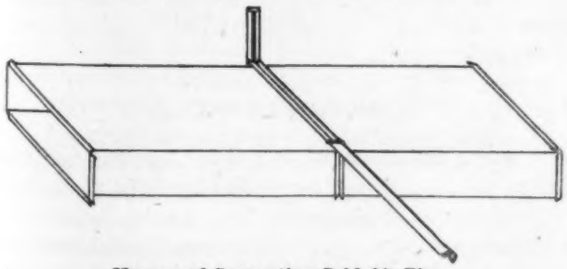
BY OTTO FALKENHAINER.

The conditions encountered in this job were the same as usually found when an attempt is made to remodel and modernize an old house—low cellar, no wall stacks, and no chimney in the cellar.

In spite of these handicaps, we were able to place the furnace, after the needed changes were made, in a very satisfactory way. The first thing, of course, was to get the flue into the cellar, and while the chimney was built we slipped a wall stack alongside of it for the bathroom upstairs. After this it became an easy matter to place the furnace according to good rules in the northwest part of the cellar, close to the chimney and with short pipe runs. We find it good practice to always place the furnace in such position, that most of the pipes can be taken from the back of the heater, as most of the radiating surface is there. In this particular case, we heat three rooms with two hot air runs in the cellar, making use of the modern wall register to accomplish this. The cold air or return plate was placed in the dining room and connected to the furnace by means of a box, made of galvanized iron and placed overhead, dropping to the lower casing with a round pipe and elbow. On account of the low cellar we had to use a wide, flat box of the same capacity as the round pipe.



Cottage Heating Plan.



Manner of Connecting Cold Air Pipe.

It may be of interest to some to show the manner we had of connecting the joints of this box. By turning the edges a little more than square, at the ends of the joints, butting together and slipping a cleat over the same, we can get a pretty good seam and one that stiffens the pipe, even after the cleat is flattened out. Papering the seams helps to make a dust-proof job.

THE APEX.

A good, strong, heavy, durable Cast Iron Furnace is the Apex Warm Air Furnace made by the Youngstown Furnace & Supply Co., of Youngstown, O. This furnace is built along lines that are entirely simple and which have been known to be altogether successful for a good many years. This is a type of furnace that possesses great heating capacity and which, under no conditions, will ever get out of order or fail to work according to expectations if the two simple items of keeping a good fire and a clean ash pit are

followed by the owner. It is of the type of furnace that is strong enough to resist the fiercest fire and it will burn anything—hard coal, soft coal, coke, wood or anything you see fit to put into it that is at all combustible in its nature. It is built in absolutely gas tight and dust tight quality and is in all ways a thoroughly desirable item of heating apparatus. In addition to its line of furnaces the company is now prepared to offer a superior line of stoves and ranges to the trade concerning which, in connection with the furnaces, information may be had by addressing the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

BOYNTON'S SPECIAL LOW DOWN FURNACE

An entirely new furnace is now presented by the Boynton Furnace Company of Chicago and New York which has been named Boynton's Special. It is a low-down furnace that is made to meet the demand for a high grade hot air furnace that will fill the requirements of shallow basements in particular. In its construction a new form has been chosen namely an elliptical one with casing and radiator of concentric design, to the end that the warm air passages may be evenly distributed in the structure and thus cause a flow of hot air to be equal throughout the entire outfit.

Boynton's Special is made in four sizes, and is designed for burning hard or soft coal, wood or natural gas. There are a number of wholly new features in the construction of this furnace that have been brought about by much careful consideration close

1. Boynton's Special without Casing.

study and extended experience. The construction of the body has been arranged with the feed door opening close to the fire-pot, a valuable consideration in itself because of the ease of firing that is secured. The peculiarity of arrangement provides for the passing of the products of combustion directly backward and upward through opposite openings in the large radiator whose great extent is traversed by the hot current entering at two different points and being discharged through the smoke exhaust low down at the back of the radiator section. In this process the radiator becomes very highly heated, and this heat is contributed to the air passing vertically through the air spaces between the body and the radiator as shown in the second illustration in connection herewith.

In heating furnace operation the natural flow of the heated products of combustion is always towards the rear of the structure and in the direction of the exit flue. In Boynton's Special advantage has been taken of this fact, and by the elliptical form that is provided more back wall is allowed and the heat convey-

2. Boynton's Special, Body and Radiator.

ing ducts or pipes are located largely at the rear where the hottest part of a furnace is always found.

In the construction, the ash-pit, which is a very large one and the fire-pot, which is also large and thoroughly well shaped, are in cast iron. The unusually large radiator is built in heavy sheet steel and the crown dome cap, which is of large proportions, is also of steel formation. A dust flue and dust damper are provided in a manner that meets the requirements most perfectly and the furnace is equipped with the best class of outfitting of modern conveniences that is known at the present time. Everything about the structure is made and placed in the most practical manner to the end that the workings of the device may be wholly successful in all ways. Illustrated descriptive matter relating to this and to other furnaces of the company may be had upon application, at 147-149 Lake street, Chicago, or 207-209 Water street, New York City. In writing kindly mention THE AMERICAN ARTISAN.

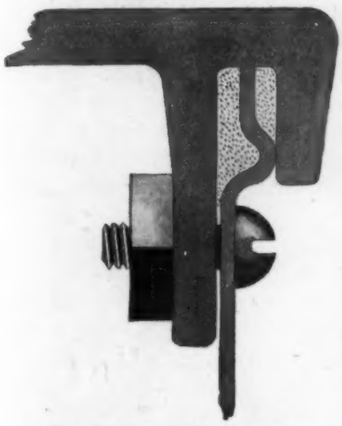
QUAKER FURNACES.

A very good catalogue of Quaker furnaces and adjuncts thereto is issued by the Quaker Mfg. Company. It is known as catalogue No. 21. In the line of furnaces shown there are the "400 series" steel furnace, the 1,000 series Quaker, the 900 series wood furnace, the 100 series furnace, the 1,800 series furnace, and these are displayed in a manner that makes their understanding very complete and leaves no room for guess work as to the nature of the parts and the fixtures, as all of the devices and peculiarities of the

several furnaces are shown separately by illustrations, and the general construction of each of the numbers is made clear by sectional engravings of the furnaces. The several furnaces are described in unusually good text, and as the text goes along in an explanatory manner, the several items are taken up in connection therewith and fully considered. The automatic Puff damper, the riveting construction, the clean-out strip which is something wholly new, the hot blast arrangement, the basket and revolving grates, the doors, feed chutes, dampers, and other items of like character are thus all in illustrated forms properly interspersed throughout the catalogue. The work is nicely printed with excellent engravings upon heavy white surfaced paper, and the arrangement of the matter is thoroughly convenient and good. The catalogue runs to 38 pages and cover and is 8x10½ inches in size. It is a very complete and excellent catalogue of the Quaker line. It may be had by the trade upon application to the company at 40 Dearborn street, Chicago. When writing, kindly mention THE AMERICAN ARTISAN.

MARVEL HEAT PRODUCER.

The Interstate Manufacturing Co., of Oskaloosa, Ia., which offers Marvel Heat Producers in the form of "better furnaces," has adopted the phonetic system of spelling for its present advertising. This may seem a little odd, but it happens to be the fact that the company is advertising a type of furnace that will stand anything, so it is, of course, not altogether surprising that the company should take a chance with the phonetic spelling in advertising it. The Marvel Heat Producer is in a strictly modern type of steel furnace construction, in connection with which there is provided a very large amount of added radiating surface built in at the back in semi-horseshoe formation. The company has succeeded thoroughly well with this furnace and is encouraged by a rapidly growing trade that is coming its way. The equipment of the furnace is of wholly modern type as to its fire pot, grate arrangements and ash pit accommodation, and, besides a very large amount of radiating surface that is provided, there is a distinct claim of excellence in the manner in which the structure is put together in its joining and riveting. This is accomplished through the medium of an original joint construction by the company which is known as the "Marvel Lock Radiator Joint," which is a packed joint that is devised in such a manner as to wholly forbid the passage of dust or gas or anything else whatever. The company claims for its furnace that it has fewer joints and fewer parts and more exclusive features of merit than any of the other furnaces made of steel that are run along the same general lines. A good catalogue relating to the Marvel Heat Producer may be had upon application to the company as herein indicated. In writing kindly mention THE AMERICAN ARTISAN.



Marvel Lock Radiator Joint.

KELSEY HEATING CO.

A very good advertisement by the Kelsey Heating Company of Syracuse, N. Y., is one recently issued which goes right directly to the second person and talks to him about what he can do with the Kelsey Generator. It says to him: "You can live for yourself—not your competitors. Make a profit for yourself on your heating work this year." We stand ready to show you how it can be done. You can go out after a better class of heating work. You can eliminate some of the competition you have been facing. Your business will grow faster from year to year. At the end of each year the balance will be on the right side of the ledger, and it won't be a very small balance either." There is more of it but the extract here quoted is sufficient to show that the Kelsey Heating Company is doing some very strong and very sensible advertising. In this connection the company not only states that it can "Show you how it can be done," but from our knowledge of the company we are quite assured that it is "there with the goods" and is prepared to keep this promise strictly to the letter. Kelsey Generators have points about them that are in their favor and when known and thoroughly understood they rarely fail of appreciation, and besides this, they have a record of successes that are altogether worthy of careful consideration. Some excellent advertising matter directly from the house may be had upon application by addressing the company as herein indicated. In writing kindly mention THE AMERICAN ARTISAN.

The Hart & Cooley Company of New Britain, Conn., offers a new register of wrought steel construction that is adapted for side wall uses in furnace heating. It is claimed that this is the thinnest register ever made and is designated as a "pancake" register.

OBITUARY.

Geo. Wiegand.

Geo. Wiegand, president of the Standard Stamping Company of St. Louis, Mo., died at his home in St. Louis on February 20th after an extended illness. Mr. Wiegand was a native of Germany, but had been in this country since his early childhood, and had been identified with the business affairs of the city of St. Louis for nearly forty years. He was the founder of the Standard Stamping Company. He leaves a widow and two sons and a daughter.

Evans Nelson.

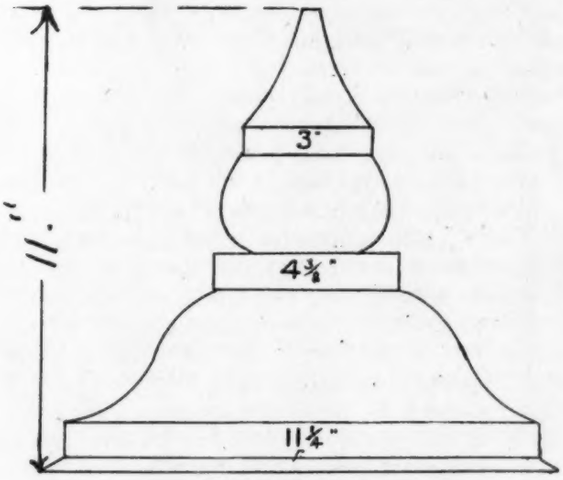
Evans Nelson, President of the Lawson Mfg. Company, of Chicago, died at his home at 784 North Irving avenue, on Wednesday, March 4, of typhoid pneumonia, following an illness of one week's duration. Mr. Nelson was 40 years of age at the time of his death. He leaves a widow and one son.

Tinshop

OCTAGON FINIAL PLAN WANTED.

To THE AMERICAN ARTISAN:

Will you kindly publish in the columns of THE AMERICAN ARTISAN the accompanying sketch and in connection therewith invite accommodating "tinks" to assist me in the matter of laying out the pattern for an octagon "finial" with a profile as shown in the accompanying drawing with each section of the octagon



Octagon Finial.

having dimensions as marked in the drawing. I understand the method used in laying out an octagon miter, but I do not understand how to lay out the pattern for a finial having any desired dimensions. I am hoping that some brother will explain this for me.

Very respectfully yours,

OTTO SCHAAL.

Aberdeen, Wash.

This is an interesting inquiry, relating to which we are very glad to present a satisfactory solution in the following contribution by Morris Ellinger, of Cheyenne, Wyo. Mr. Ellinger's contribution follows:

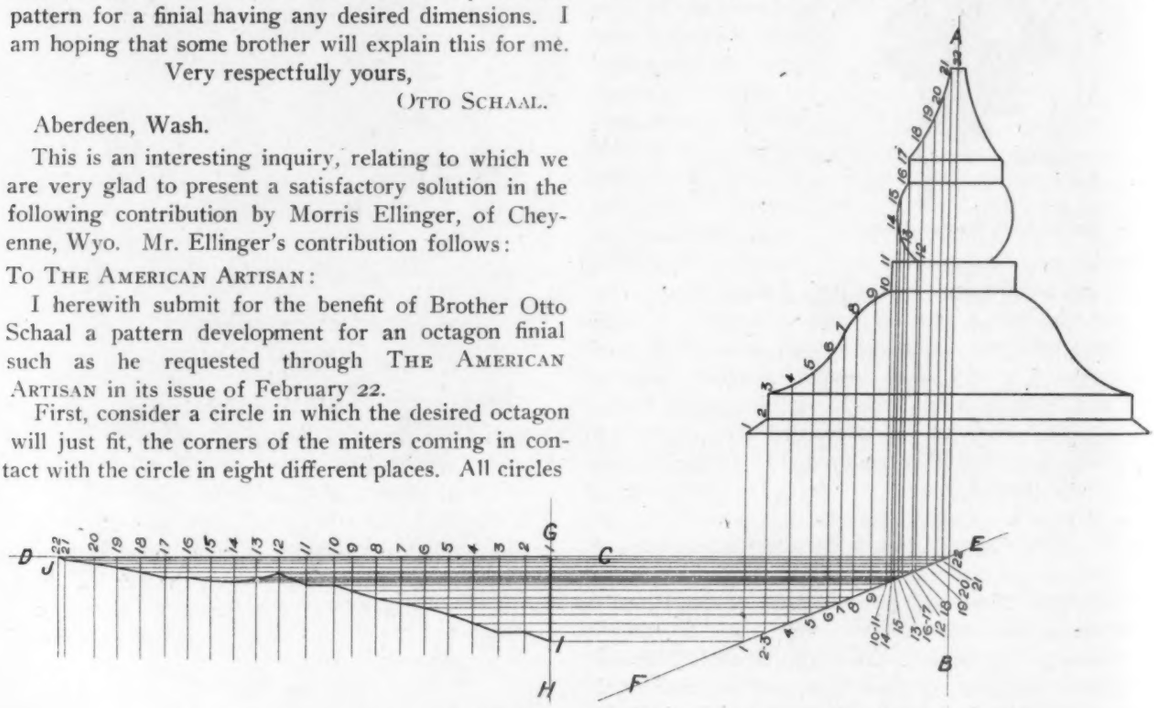
To THE AMERICAN ARTISAN:

I herewith submit for the benefit of Brother Otto Schaal a pattern development for an octagon finial such as he requested through THE AMERICAN ARTISAN in its issue of February 22.

First, consider a circle in which the desired octagon will just fit, the corners of the miters coming in contact with the circle in eight different places. All circles contain 360 degrees. The miter being one-half on each side you count 2 for each miter line, hence you have $8 \times 2 = 16$. Now 360 degrees divided by $16 = 22\frac{1}{2}$ degrees, the desired miter line. Now from line A-B, which is the center of the profile, draw the line C-D at right angles to A-B. Now from the place of intersection of C-B and A-D step off the line E-F $22\frac{1}{2}$ degrees from C-D, which is the miter line. Now step off the profile in any given number of spaces and transfer the same to line C-D, drawing lines at right angles to C-D through each space as in G-H. Next drop lines from each of the space in the profile to miter line E-F. Now draw line from miter line where these lines intersect parallel to C-D and where lines having the same numbers cross each other draw the line I-J which completes the pattern. Yours very truly,

MORRIS ELLINGER.

Cheyenne, Wyo., February 26, 1908.



An Octagon Finial.

UNO REVOLVING VENTILATOR.

The illustration shown herewith is of the Uno Revolving Ventilator for which many practical advantages are claimed, particularly in the directions of ventilating and the regulation of smoke exits from chimneys and a positive elimination of down drafts or reversed current chimney flue. It is claimed for the Uno Ventilator that it is not only satisfactory in operation but that it is made in the most substantial manner possible and that it will endure accordingly. In addition to the Revolving Ventilator which is a most attractive feature, the Uno Ventilator Co., of Lynn, Mass., offer stationary metal ventilators of a very excellent variety. The revolving device, however, which runs free and entirely noiselessly and is so equipped that it cannot get out of order is the most satisfactory feature of the company's line, and is selling rapidly throughout the country. It is made in all required sizes and can be furnished promptly upon request.

Uno Revolving Ventilator.

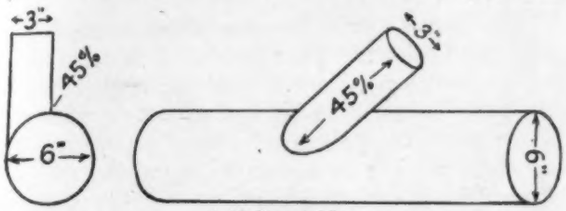
Trade literature relating to this device can be had upon application to the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

CYLINDERS INTERSECTING IRREGULARLY.

In its issue of February 8, THE AMERICAN ARTISAN, published the following request, namely:

To THE AMERICAN ARTISAN:

"Enclosed herewith find a sketch of a 'Tee.' Will you kindly submit the same to the readers of THE

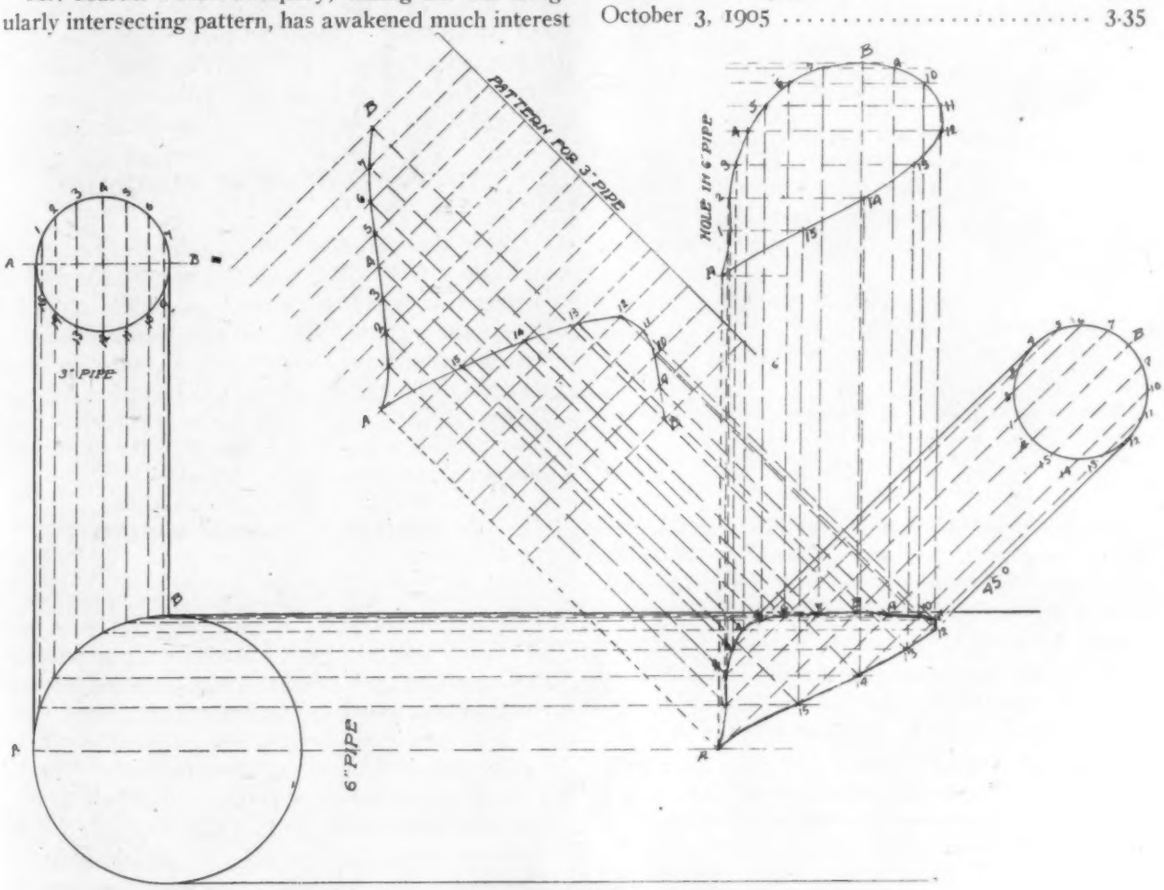


A 45 Degree Tee.

AMERICAN ARTISAN through its Tinshop Department. It is my desire to have some of the practical 'Tinks' who are readers of your paper develop a pattern for this piece of work." Very truly yours,

Paris, Tex. MARTIN FOESTE.

Mr. Martin Foeste's inquiry, asking for the irregularly intersecting pattern, has awakened much interest among practical sheet metal workers and has brought forth several excellent replies to his request that have been accompanied by practical plans. Some of these have been published heretofore and others will follow in the order of their receipt by us. In the present instance, we are submitting the pattern and description contributed by Mr. Phil Kimel, who is connected with the St. Paul Roofing, Cornice & Ornament Co., of St. Paul, Minn.



An Irregular Intersection.

TIN PLATE FLUCTUATIONS SINCE JANUARY 1899.

The following is a table which shows the fluctuations in tin plate prices since January, 1899, and including a corresponding date in January, 1908. The lowest point reached in the period is shown at $3.00, and the highest at $4.65, which price was reached in August, 1899. The prices quoted are for 14 x 20 plates, 100-lb. boxes, prime Bessemer coke tin, f. o. b. Pittsburg:

January 6, 1899	$3.00
January 26, 1899	3.25
February 17, 1899	3.50
March 8, 1899	3.87½
July 14, 1899	4.37½
August 6, 1899	4.65
September 24, 1900	4.00
November 3, 1902	3.60
March 3, 1903	3.80
November 16, 1903	3.60
January 25, 1904	3.45
July 25, 1904	3.30
November 15, 1904	3.45
December 22, 1904	3.55
October 3, 1905	3.35
October 20, 1905	3.45
November 20, 1905	3.40
January 8, 1906	3.50
April 10, 1906	3.60
May 19, 1906	3.75
October 25, 1906	3.90
January 6, 1908	3.70

NOTES AND QUERIES.

MILK CANS.

From Matthew F. Fusting, 916 18th Street, Louisville, Ky.

Would like to know who makes milk shipping cans?

Ans.—Sturges & Burn Mfg. Company, Harrison and Green streets, Chicago.

ADDRESS OF LAWN MOWER COMPANY.

From Beverly & Schneider, Marion, O.

Can you please advise us where the Blair Mfg. Company, which makes lawn mowers, is located?

Ans.—Springfield, Mass.

FULTON BARN PAINT.

From Gutru & Juelson, Newman Grove, Nebr.

Will you kindly tell us who manufactures the "Fulton" Barn Paint?

Ans.—Was, but is no longer manufactured by Geo. W. Pitkin Co., Benton Harbor, Mich.

SOLDER FOR ALUMINUM.

From John F. Cartwright, Bowling Green, Ky.

Where can I get solder that will solder aluminum ware?

Ans.—Aluminum Company of America, 158 Lake street, Chicago.

ANGLE IRON.

From J. H. Banks, Fremont, Nebr.

Please refer me to some Chicago firm who can furnish me with ¾-inch angle iron?

Ans.—Kelley-Maus & Co., 1168 S. Ashland avenue, Chicago; Jos. T. Ryerson & Son, 18 Milwaukee avenue, Chicago.

ROOFING CEMENT.

From Harry W. Harrison, Mt. Union, Pa.

Where can I get elastic roofing cement?

Ans.—The Wm. Connors Paint Mfg. Company, Troy, New York; Auld & Conger, 999 Prospect street, Cleveland, O.

"VESTA" GASOLENE BURNERS.

From B. Randolph, Detroit, Mich.

Can you inform me who manufactures Vesta gasolene burners?

Ans.—Edward Iller, New Haven, Conn.

ITEMS.

The local association of Master Sheet Metal Workers, of St. Joseph, Mo., at their meeting on February 20, elected the following officers for the ensuing year: Wm. Wehram, President; Wm. Steel, Vice President; August Schwein, Treasurer; A. T. Whelan, Secretary.

A contract has been taken by the David Lupton's Sons Company of Philadelphia, Pa., for the covering of the Adams Express Company's Jersey City pier, with a sheet metal covering. The work will include the placing of quite a number of skylights to light the enclosed pier and a vast amount of sheet metal will be used in the entire work.

The regular monthly meeting of the Master Sheet Metal Workers' Association of Milwaukee, Wis., was held on Wednesday evening, March 4, at 8 o'clock, at the association's rooms, in the Builders' & Traders' Exchange. The important features of the meeting related to the report of the Committee on Commercial Rates, and a discussion of Secretary Barnard's report recently made before the semi-annual meeting of the trustees of the National Association at Pittsburg. A number of other topics were taken up for discussion and an enjoyable evening was spent.

Secretary E. F. Bohn, of the Cleveland Association of Master Sheet Metal Workers, has been found guilty of preparing an elaborate newspaper article relating to the City of Butte, Mont., for a recent issue of the Butte *Miner* of February 2. It is stated that the review of the city in this article is a most excellent one and that it has attracted very wide attention throughout Montana and elsewhere.

The Empire Cream Separator Company of Bloomfield, N. J., has taken action against Sears, Roebuck & Co., the Chicago catalogue house, in the matter of the latter named company having sold or offered to sell "Improved Economy" cream separators. The action resulted in an injunction restraining the catalogue house from selling any goods of the character named manufactured by the former named company.

A series of three very good announcements by the Stockhoff Supply Co., of St. Louis, Mo., relate to standard brands of Follansbee Bros. Company's tin plate, for which the company here indicated is western distributor. These announcements, while relating to the standard tin brands in general, refer very directly to the hammered open hearth features and call attention to them very particularly. The Stockhoff Supply Company is doing a splendid business in standard brands of Follansbee plates, and is handling the high grade feature of the product most vigorously.

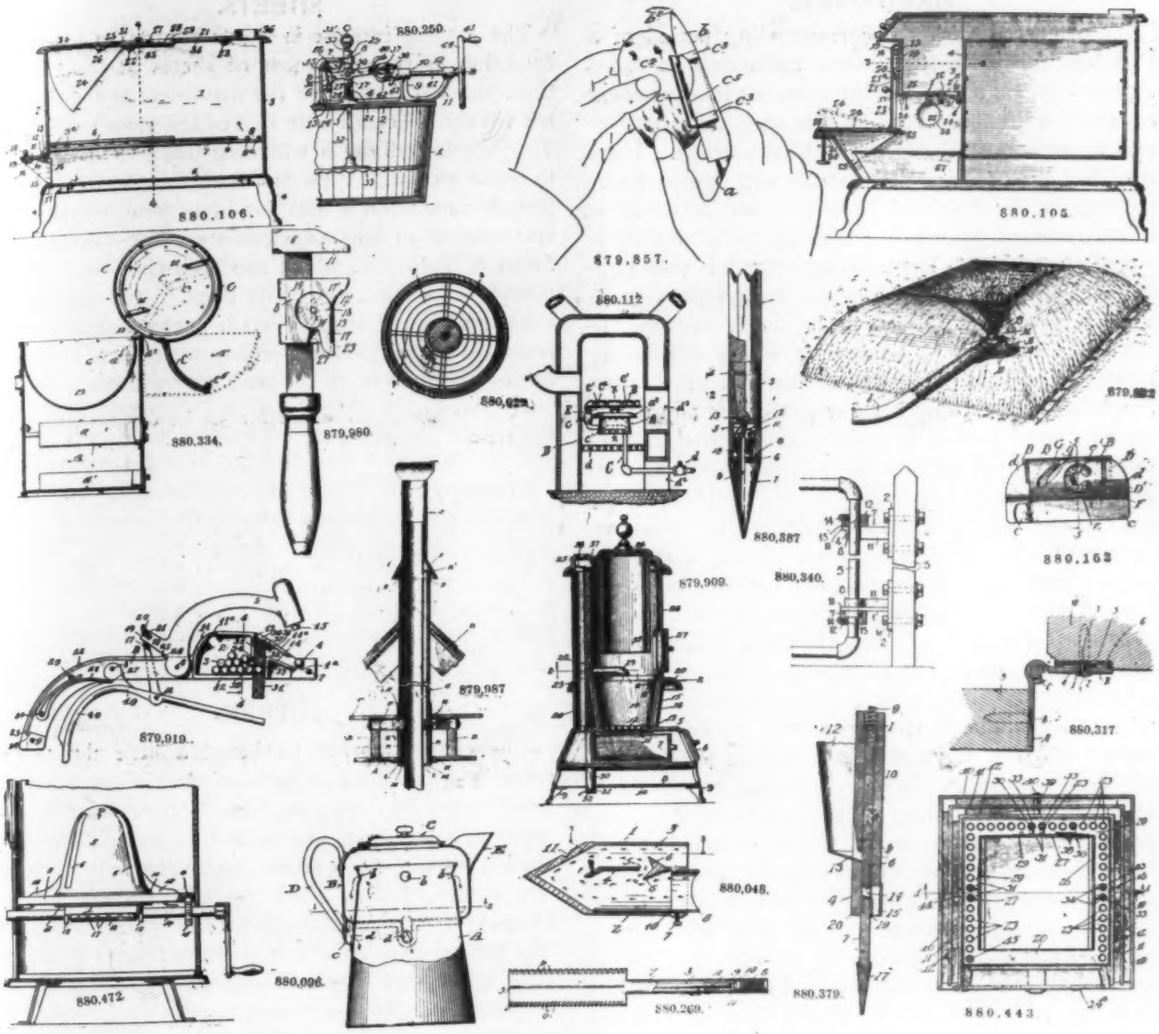
TIN PRODUCTION OF AUSTRALIA.

Consul-General John P. Bray, of Melbourne, reports that 12,091 tons of tin, valued at over $7,300,000, was produced in Australia during 1906, being 1,725 tons more than in 1905. The following quantities of tin were mined last year in each of the producing states: New South Wales, 1,300 tons; Queensland, 4,823 tons; Tasmania, 4,473 tons; and Western Australia, 1,495 tons. This it may be said relates to tin in the metal and not to tin plate.

CHILEAN COPPER MINING.

There have been 7,854 copper claims worked in Chile at different times, of which only 748 were worked during the past year. Many of these mines are rich in copper, but with the high price of labor and the poor transportation facilities, few, if any, can be made to pay at the present low price of copper, save those equipped with up-to-date machinery. These are limited, and should the present conditions continue, the production of copper in Chile for 1908, it is estimated, will not be one-half that for the past year. The future for the mining interests does not seem bright at present. The scarcity and high price of labor are factors that bear heavily on this industry in this part of the world. There seems to be plenty of rich ore in the country, but the trouble is with the methods in general use to get it ready for the market. More up-to-date machinery and methods are needed to make the business profitable.

NEW PATENTS.



879,857—Paring attachment for knives. Evert L. De Vale, New York, N. Y. Filed Oct. 11, 1907. Serial No. 396,901.

879,892—Lawn sprinkler. Harry T. Packard, Pasadena, Cal. Filed Aug. 23, 1907. Serial No. 389,901.

879,909—Stove. William Rube, O'Fallon, Ill. Filed Aug. 12, 1907. Serial No. 388,187.

879,919—Detonating pistol. William Simpson, Berea, O., assignor to John H. Fox, Berea, O. Filed April 22, 1907. Serial No. 369,486.

879,980—Wrench. William B. Orr, Salisbury, N. C. Filed June 19, 1907. Serial No. 379,760.

879,987—Stove flue. Everett E. Thompson, Kaufman, Tex. Filed Feb. 25, 1907. Serial No. 359,228.

880,022—Potato grater. Hermann Halbach, Neunkirchen, Germany. Filed Feb. 18, 1907. Serial No. 358,150.

880,048—Soldering copper. Robert R. Stein, Seattle, Wash. Filed June 10, 1907. Serial No. 378,279.

880,096—Coffee pot. Otto F. Regnell, Milwaukee, Wis. Filed April 6, 1907. Serial No. 366,692.

880,105—Grate for cook stoves. Joseph J. Shimer, Cuba, Kan. Filed May 24, 1906. Serial No. 318,501.

880,106—Convertible heating and cooking stove. Joseph J. Shimek, Cuba, Kan. Filed June 4, 1906. Serial No. 320,-105.

880,112—Gas burner. Frederick C. Vearing, Cincinnati, O. Filed Dec. 7, 1907. Serial No. 405,474.

880,153—Sharpening device for skates, etc. Louis J. Moorman, Chicago, Ill. Filed Sept. 3, 1907. Serial No. 391,-232.

880,250—Gearing for washing machines. Harrison L. Staley, Martinsville, Ind. Filed Aug. 3, 1907. Serial No. 386,912.

880,269—Safety razor. Oscar V. Ball, Philadelphia, Pa. Filed Sept. 13, 1907. Serial No. 392,747.

880,334—Boiler washing machine. John W. Seifert, East Point, Ga. Filed July 17, 1907. Serial No. 384,204.

880,340—Gate hinge. Daniel E. Stetler, Medford, Okla. Filed May 27, 1907. Serial No. 375,923.

880,379—Hand planter. Francis E. Griffeth, Athens, Ga. Filed July 15, 1907. Serial No. 383,882.

880,387—Plumb bob. Don O. Morrill, Spokane, Wash., assignor of one-half to Lynn W. Morrill, Spokane, Wash. Filed May 10, 1907. Serial No. 372,898.

880,317—Door hinge. Waldemar L. von de Marwitz, Los Angeles, Cal. Filed Aug. 7, 1907. Serial No. 387,545.

880,443—Refrigerator. Forrest V. Detwiler, Chicago, Ill. Filed Nov. 30, 1906. Serial No. 345,709.

880,472—Stove grate. Thomas J. Stafford, Brooklyn, Ia. Filed July 8, 1907. Serial No. 382,728.

Trade Report.

HARDWARE.

As compared with the corresponding period of a year ago the jobbing hardware trade may be called thoroughly dull at the present time, but in an average comparison of a number of years past, trade may be said to be in normal condition, in its average. There is a fair movement of both staple and special goods throughout the West and Northwest and the evidence of an increased activity in all lines in these sections is not at all wanting. The building outlook is thoroughly good and inquiry and demand for builder's hardware is not only very encouraging but it leads to conclusions that are in the direction of a very satisfactory building hardware business throughout the year. Stocks of hardware on hand with western and northwestern retail hardware dealers are reported as very well assorted, but not wholly up to the usual standard as to quantities and aggregate values. Jobbing stocks are reported strong and manufacturers are filling orders with reasonable promptness. There is reported some complaint as to shortage of cars for transportation. Prices continue firm in practically all lines and collections are good. Wire products continue strong and are now running to about 80 per cent of the mill capacity. Wire nails, barb wire and plain fencing wire still continue in strong request. Wire nails are quoted at $2.23, galvanized barb wire at $2.68, painted barb wire $2.38, smooth annealed wire $2.08, smooth galvanized wire $2.38, galvanized staples $2.63, polished staples $2.23. These quotations being for car lots to jobbers. Car lots to retailers adds 5c all the way and for less than car lots add 15c.

There is little movement in cut nails and there is reported a shading of the market quotations to the extent of 10c a keg. Quotations in Chicago market are iron cut, cars to jobbers, $2.38; cars to retailers, $2.43; steel cut, cars to jobbers, $2.28; cars to retailers, $2.33.

TIN PLATE.

The tin plate market is gradually getting into better shape. Orders are coming in more freely, and plans are gradually resuming. Business at present is mainly routine, but manufacturers are optimistic over the outlook. Prices are for 100-pound coke plates, $3.70 at Pittsburg mills, with the independents quoting $3.65. Price f. o. b. Swansea for tin plate is 12s. Arrivals of tin plate for the week were 19,542 boxes at New York, and 40 boxes at Philadelphia. Stocks of tin plate in Swansea on Feb. 13 were 148,986 boxes, against 117,728 at the same time a year ago. We quote:

For prompt shipment, f. o. b. mill:

Coke, tins, 14x20, I. C	$3.85 @$3.90
Coke, tins, 14x20, 100 lbs	3.70 @ 3.75
Coke, tins, 14x20, 95 lbs	3.65 @ 3.70
Coke, tins, 14x20, 90 lbs	3.60 @ 3.65
Charcoal, terne, 20x28, I. C	7.30 @ 7.35
Charcoal, terne, 20x28, 200 lbs	7.00 @ 7.05

Usual differences for odd sizes and weights.

SHEETS.

The jobbing interest in sheets reports an improved condition in the movement of sheets at the present time, but it is stated that the movement at the mills is not wholly in accord with that of the store movement. This would indicate a trimming down of store stock to some extent. Mills are operating largely at the present time upon sheets for immediate demand and are running to fair specifications. The Youngstown Sheet & Tube Co., which has been shut down for a number of weeks, started its plant in full during the week. Prices of sheets remain unchanged and there seems to be no prospect of any alterations of prices during the present or the near future time.

The following prices are for 500-bundle lots and over, f. o. b. mill:

		Galvanized.	
Gauge.	Net.	Net.	List.
No. 30	$2.75	$4.05	21
No. 29	2.65	3.80	19
No. 28	2.50	3.65	17
No. 27	2.40	3.35	16
Nos. 25 to 26	2.35	3.15	15
Nos. 22 to 24	2.30	2.95	14

COPPER.

The copper market weakened a little during the week in sympathy with London and the small domestic business in progress. Electrolytic was marked down ¼c to 12¾c, and even this would have been shaded by the independent dealers on a firm offer. The course of the London market indicates that the carrying of the large stocks in that market is becoming burdensome, and there is some throwing over of supplies by tired longs. These are not readily absorbed by the continental manufacturers, and the market present a weak appearance. The decline in the London market came in the face of a better statistical position, showing a decrease in stocks of 1,610 tons, and an increase in the supplies afloat of 200 tons. Insiders say that both the market here and abroad are being subjected to a great deal of juggling, and it is difficult to predict the course of the market. In some quarters it has been thought that the move in cutting prices was to stimulate speculative buying, in both this and the London market, but no engagements of magnitude were reported. It is believed, however, that Europe is still in a position to take a large volume of the metal. Prices on the New York Metal Exchange were during the week reduced ⅛c all around to 12½c to 12¾c for lake, 12⅜c to 12⅝c for electrolytic and 12¼c to 12½c for casting copper. The market was called weak.

Exports from New York were 2,854 tons. Exports for February showed a total of 24,640 tons, or a total of 57,659 tons since the beginning of the year, as compared with 26,213 tons during the same period in 1907. Total arrivals for February were 3,412 tons copper, 1,385 tons matte and 26,091 tons ores. Total

arrivals at all ports of the United States for January were 7,300 tons fine copper.

Extreme fluctuations for the year:

	Highest.	Lowest.
Electrolytic copper, spot	13¾	12¼
Lake copper, spot	13⅞	12⅜
Casting copper, spot	13½	12⅛

SHEET ZINC.

Business in sheet zinc continues of small proportions. Consumers are taking nothing beyond actual requirements for immediate use, and trading is mainly routine in character. Prices are steady on the basis of $7.00 per 100 pounds f. o. b. smelter, with 8 per cent discount. There is no charge for extras. Prices on cask lots are held at $7.05 to $7.15 per 100 pounds.

SPELTER.

The spelter market was quiet and uninteresting and prices were unchanged. Immediate shipments from the west were held at $4.70 to $4.75, and futures at $4.60 to $4.65 f. o. b. New York. The St. Louis market is strong at $4.75 bid and $4.80 asked, with no sales reported. The London market was easy at £21. During February there were shipped 2,013 tons of zinc ore to Europe.

Extreme fluctuations for this year:

	Highest.	Lowest.
Spot, New York	$4.80	4.32½
Spot, London	£22 0 0	£19 17 6

ALUMINUM.

Trade in aluminum is more or less of a routine character, with business of small proportions. Prices are easy. No. 1 ingots for remelting are offered at 33c to 34c per pound in ton lots, and No. 2 ingots at 31c to 32c in car lots for 90 per cent pure.

PIG IRON.

There has been considerable talk in factory circles that consume pig iron of a 25,000 ton order for Southern iron that was put out by the International Harvester Company recently, but upon investigation the fact develops that the International Harvester Company has placed no such order as this nor has it been in the market for iron to any considerable extent recently. The week has been an inactive one in nearly all of the markets. One sale is reported of 300 tons of Southern No. 2 in this market at $13 Birmingham and the Western Fdy. Co. has placed an order for 300 tons of Southern Silvery, but this order, we understand, goes two ways, it being a combination order intended for the use of two interests. Notwithstanding the very dull pig iron reports that have been put out during the period since January 1 the figuring up of the January business shows a much greater aggregate sale of pig iron than was at all expected, and we are advised that the buying by small and moderate melters is steadily becoming stronger in the aggregate and bids fair to become of increasing volume steadily during March, April and May as the consumption of manufactured products increases. We quote as follows:

CHICAGO MARKET.

Lake Superior Charcoal	$21.50 @$22.00
Northern Foundry No. 1	18.00 @ 18.50
Northern Foundry No. 2	17.50 @ 18.00
Northern Foundry No. 3	17.00 @ 17.50
Southern Foundry No. 1	17.85 @ 18.35
Southern Foundry No. 2	17.35
Southern Foundry No. 3	16.85 @ 17.35
Southern Foundry No. 4	16.35 @ 16.85
Southern No. 1 Soft	17.85 @ 18.35
Southern No. 2 Soft	17.35 @ 17.85
Southern Gray Forge	15.35 @ 15.85
Southern Mottled	15.10 @ 15.60

PITTSBURG MARKET.

No. 2 Foundry	$16.90 @$17.00
Gray Forge	16.15
Bessemer	17.90
Basic	16.90
Malleable	16.90 @ 17.15
Southern No. 2	17.40 @ 17.90
Southern Forge	15.90 @ 16.40

BIRMINGHAM MARKET.

No. 1 Foundry	$13.00 @$14.00
No. 1 Soft	13.00 @ 14.00
No. 2 Foundry	12.00 @ 12.50
No. 2 Soft	12.00 @ 12.50
Gray Forge	11.25

Rogers, Brown & Co., Cincinnati, will say in their weekly report: Practically no change is noticeable from conditions of a week ago. There is the same general run of small business for prompt shipment and little or no encouragement on the part of buyers toward interest in larger quantity for a more extended period. Such buying has been done by the Pipe Works and one or two of the larger industries, but is not yet of a general nature. The business done during February totaled up a very respectable tonnage and the month probably figured out a larger percentage of shipments against sales than any month in years. Consumption among general foundry trade is proceeding at about the same rate and stocks on consumers' yards are being depleted wherever it is possible to do so. One or two fair-sized inquiries have developed and the tonnage is still pending. There are so many factors which enter into the pig iron situation at the present time, that it is hard to figure what the immediate future has in store, but it is confidently believed that a slow and gradual improvement will mark the development during the next few months.

Matthew Addy & Company, Cincinnati, will say in their weekly report: There was more doing in the iron business in January than there was in December, and there was more doing in February than there was in January. It is a little early yet to speak for March, but there isn't a particle of doubt that its record will surpass that of February, and it looks as if the ascending scale would be the order of things for some time to come.

Apparently those who predicted an instantaneous return to the conditions that ruled a year ago were badly mistaken. We are going forward little by little, but the main fact of the situation is, we really are going forward, and are neither standing still nor going backward.

The biggest new tonnage of pig iron is coming from two sources—from the makers of cast iron pipe and from the manufacturers of open hearth steel. They have been buying in fairly large quantities for shipment from sixty to ninety days ahead. For the balance, current business consists of all kinds of small lots. Five hundred tons is something of a curiosity, the average order being somewhere between one and two hundred tons, and to get this average you have to leave the carloads out.

There is one thing that we have noticed that looks very encouraging, and that is the fact that consumers can no longer wait for their iron. If shipments are not made exactly on time, they raise a great row. Ninety days ago the longer shipments were delayed the better the consumer liked it, but now he is really needing iron.

Then, too, there is much more activity in the coke market, which is a decidedly favorable indication.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x20	$6 40
IX	14x20	7 45
IXX	14x20	8 60
IXXX	14x20	9 85
IXXXX	14x20	11 00
IC	20x28	15 70
IX	20x28	15 70
IXX	20x28	18 15
IXXX	20x28	20 55
IXXXX	20x28	22 95

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$ 8 50
Cokes, 200 lbs	IC	20x28	9 00
Cokes, 216 lbs	IC	20x28	9 50
Cokes, 270 lbs	IX	20x28	11 25

PIG IRON.

North'n Fdy., No. 1	$18 00@$18 50
North'n Fdy., No. 2	17 50@ 18 00
North'n Fdy., No. 3	17 00@ 17 50
Southern Fdy., No. 1	17 85@ 18 35
Southern Fdy., No. 2	17 35@ 17 85
Southern Fdy., No. 3	16 85@ 17 35
Southern Fdy., No. 4	16 35@ 16 85
Southern No. 1 Soft	17 85@ 18 35
Southern No. 2 Soft	17 35@ 17 85
Southern Gray Forge	15 35@ 15 85
Southern Mottled	15 10@ 15 60
Lake Sup. Charcoal	21 50@ 22 00
Southern Silveries, 4% Silicon	18 85@ 19 35
Southern Silveries, 5% Silicon	19 35@ 19 85
Southern Silveries, 6% Silicon	20 35@ 20 85
Jackson Co. Silveries, 6 per cent	21 90@ 22 40
Jackson Co. Silveries, 8 per cent	23 90@ 24 40
Jackson Co. Silveries, 10 per cent	25 90@ 26 40
Malleable Bessemer	18 00@ 18 50
Standard Bessemer	19 40@ 19 90
Alabama Basic	17 35@ 17 85

BLACK STEEL SHEETS.

Nos. 11-12	per 100 lbs.	$2 60
Nos. 13-14	per 100 lbs.	2 65
Nos. 15-16	per 100 lbs.	2 70
Nos. 17-21	per 100 lbs.	2 75
Nos. 22-24	per 100 lbs.	2 80
Nos. 25-26	per 100 lbs.	2 85
No 27	per 100 lbs	2 90
No 28	per 100 lbs.	3 00

GALVANIZED

No. 10	per 100 lbs.	$2 25
Nos. 12-14	per 100 lbs.	2 45
No. 16	per 100 lbs.	2 65
Nos. 17-21	per 100 lbs.	2 85
Nos. 22-24	per 100 lbs.	3 05
Nos. 25-26	per 100 lbs.	3 25
No. 27	per 100 lbs.	3 45
No. 28	per 100 lbs.	3 65

POLISHED SHEET STEEL.

No. 24	per 100 lbs	$4 90
No. 26	per 100 lbs.	5 00
No. 27	per 100 lbs.	5 10
No. 28	per 100 lbs.	5 20

SMOOTH STEEL.

Wood's Smooth,	No. 20	$3 05
" "	No. 22-24	3 10
" "	No. 25-26	3 15
" "	No. 27	3 20
" "	No. 28	3 30

PATENT PLANISHED SHEET IRON.

Patent Planished Sheet Iron, "A" $10.20, "B" $9 20

PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel 8½c

SOLDER.

XXX Guaranteed ½ & ½	per lb. 18 c
Commercial ½ & ½	per lb. 17½c
No. 1 Plumbers	15½c

SHEET ZINC.

500 lb. Casks	case, per cwt.	$7 50
300 lb. Casks	per cwt.	7 50
Sheets	per cwt.	7 50

COPPER.

Copper sheet, 100 lbs. over, base ... 20c

TIN PIGS AND BARS.

Banca, pigs, per lb	29 c
Straights, pigs, per lb	29 c
Straights in bars, per lb	33 c

LEAD.

American Pig	4 c
Bar	4 c
National (White) brands (in less than 100 lb lots), per lb	8½c
Sheet.	
Full coils	per 100 lbs. $9 00
Cut coils	per 100 lbs. 9 50

HARDWARE.

ADZES.

Carpenters'.	
Plumbs	40%
Coopers'.	
Barton's	20%
White's	15%
Railroad	
Plumbs	40%
Ship.	
Plumbs	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F. L Waterproof, 1-10s	40c
G D	35c
Musket	60c
Shells, Loaded—	
Loaded with Black Powder	40%
Loaded with Smokeless Powder, medium grade	40 & 5%
Loaded with Smokeless Powder, high grade	40 & 10 & 10%
Union Metallic Cartridge Co.:	
New Club, Black Powders	40%
Nitro Club, Smokeless Powders,	40 & 5%
Arrow, Smokeless Powders	40 & 10 & 10%
Winchester:	
Smokeless Repeater Grade	40 & 5%
Smokeless Leader Grade	40&10&10%
Black Powder	40%
Gun Wads—per 1,000.	
Winchester Gun Wads	15%

Powder.		Each.
DuPont's Sporting, kegs		$ 50
" "	½ kegs	2 50
" "	¼ kegs	1 40
Dupont's Sm'k'less	50-lb. drum	22 45
" "	25-lb. kegs	11 30
" "	12½-lb. kegs	5 80
" "	6½-lb. kegs	2 97
"	1-lb. cans	15

Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 95
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 20
Buck Shot, 25-lb. bags, per bag	2 20
Chilled Shot, 25-lb. bags, "	2 20

ANCHORS

Expansion Screw Anchors 10%

ANVILS

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper 25%

AUGURS.

Boring Machine	70%
Irwin's	40&10%
Carpenter's Nut	70%
Hollow.	
Bonney's—list $30.00	75&5%
Stearns, No. 3	36 00
Post Hole.	
Digwell, 8-inch ..... per doz.	12 50
Iwan's Post Hole and Well	40%
Vaughan's, 4 to 9-in., per doz.	6 25
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or wi'out screw	40-12½%
Snell's " " "	40-5%

AWLS.

Brad.		
No. 3 Handled	per doz.	$0 40
No. 1050 Handled	"	80
Shouldered, assorted, 1 to 4,	per gro.	$1 20
Patent asst'd, 1 to 4	"	85
Harness.		
Common	"	95
Patent	"	90
Peg.		
Shouldered	"	1 20
Patent	"	60
Scratch.		
No 1 handled	"	4 80
No. 15, socket handled	per doz.	1 25
No. 7 Stanley		1 80
Sewing.		
Common	per gro.	90
Patent	"	90

AXES.

Boy's Handled.		
Lippincott, 3 lb	per doz.	$6 00
Falls City	"	6 00
Broad.		
Plumbs, West, Pat		33⅓%
" Can. Pat		40%
" Firemen's (handled)	per doz	$1, 75
Plumbs, Miners' (handled)	"	6 75
Single Bitted (handled)		
Gladiator . 3 to 4 lbs , per doz		$11 00
Flint Edge " "	"	9 25
Standard .. " "	"	9 25
Elec Chopper, Forest Clipper		10 50
Perfect Premier "	"	10 00
Crown "	"	7 00
Single Bitted (without handles)		
Gladiator . . 3 to 4 lbs. per doz.		$8 50
Flint Edge. "	"	7 00
Standard . . "	"	7 00
Electric Chopper "	"	8 25
Perfect . . . . . "	"	7 75
Crown . . . . . "	"	8 25
Double Bitted (without handles).		
Gladiator . . . 3 to 4 lbs. per doz.		11 50
Flint Edge. "	"	9 75
Perfect . . . . . "	"	11 00

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs advance 25c
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's	40%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point . . per cwt. $3 75

BASKETS.

Clothes.			
Small Willow ..... per doz.	$7 00		
Medium " ..... "	8 75		
Large " ..... "	10 50		
Galvanized Iron.	½ bu.	1 bu.	1½ bu.
Per doz	$4 75	6 50	8 00

BEATERS.

Carpet.	per doz.
No. 10 Coppered Spring Wire	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	1 10
Egg.	Per doz.
No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%
Hand.	
8-inch ..... per doz.	$8 50
10-inch ..... "	10 50
Moulders'.	
12-inch ..... "	12 50

BELLS.

Call.	
3-inch Nickeled Rotary Bell, Bronzed base ..... per doz.	$5 00
Cow.	
High Grade	60%
Kentucky	65&10%
Door.	Per doz.
New Departure Automatic	$6 00
Rotary.	
3 -in. Old Copper Bell	4 00
3 -in. Old Copper Bell, fancy	6 00
3 -in. Nickeled Steel Bell	4 50
3½-in. Nickeled Steel Bell	5 00
Hand.	
Hand Bells, polished	50&5%
White Metal	40%
Nickel Plated	30%
Swiss	40&33⅓%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	50%

Farm, lbs	40	50	75	100
Each	$1.25	1.60	2.35	2.85

BEVELS, TEE

Stanley's, rosewood handle, new list	25%
Stanley's iron handle	25%

BINDING, OILCLOTH.

Zinc	80%
Brass	70&10%
Brass plated	75&5%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50%
Russell Jenning's	25&10%
Clark's Expansive	60%
Steer's " Small list, $22.00	25%
" " Large " $26.00	25%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%
Countersink.	

No. 18 Wheeler's ..... per doz.		$1 25
No. 20 " .—..	"	1 75
American Snail head	"	75
" Rose "	"	90
" Flat	"	75
Mayhew's Flat	"	1 25
" Snail	"	1 25
Dowell		
New Jennings		40&10%
Gimlet.		
Standard Double Cut		60%
German Pattern ..... per doz.		$0 60
German	"	65
Gouge	"	80
Spoon	"	80
Countersink	"	1 00
Reamer.		
Jenning's Square	"	2 50
Standard Square	"	75
German Octagon	"	75
Screw Driver.		
No. 7 Common	"	50
No. 1 Triumph	"	1 25
No. 2 "	"	1 —
No. 340 Shepardson's	"	—
No. 1 Smith's	"	— —

BLACKING, STOVE. (See Polish).

BLADES, SAW.

Butchers'.
Standard, ¾ & 1½-in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each, $1 50
Hack.
Disston's.....25&5%
Flexible.....33⅓&5%
Star.....20&5%
Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....60&10%
Steel.....50%
Tackle.
Iron Strapped.....70%
Com. Steel.....60%

BOARDS. (New List)

Stove.....50&10%
Wash.
Globe, single.....per doz. $2 50
Globe, double..... " 3 35
Peace Maker..... " 3 00
Crystal Glass..... " 4 00
Brass King..... " 4 00
Nickel Plate..... " 4 15

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated.. " 1 10
No. N30, nickel plat'd. " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, etc.
Carriage, ⅜x6 and sizes smaller and shorter.....70&10%
Carriage, sizes larger and longer than ⅜x6.....60&5%
Machine, ⅜x4 add sizes smaller and shorter.....70&10%
Machine, sizes larger and longer than ⅜x⅜x4.....60&5%
Elevator.....50-10&5%
Plow.....60&10%
Stove .....80&10%
Tire.....75%
Wagon Box Strap.....70%
Mortis, Door.
Gem, iron.....60%
Gem, bronze plated.....20%
Barrel.
Cast.....60%
Wrought.....
Wrought, bronzed.....50%
Flush.
Wrought.....50&10%
Spring.
Wrought.....
Wrought, heavy.....
Square.
Cast.....50&10%
Wrought.....

BORERS.

Angular.
Miller's Falls.....per doz. $13 00
Bung.
Doz.
Enterprise Mfg. Co.'s No 1... $14 00
" " " No 2.. 18 50

BOXES

Mail, No..... 1 2 10
Per doz.....$3.50 5.00 17.50
Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's.....each, $1 50

BRACES.

Barber's..... 50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108..... $3 50
" No. 09..... 2 75
" No. 010..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1, per doz. $9 00
" No. 2, " 9 60
Shelf.
Cast Iron, bronzed.....50-10&5%
Clover Wrought Steel.....70&10%
Clover Folding.....70%

BROILERS.

Wire.....70%
No. Cwron, Self-basting, 80doz .. $2 50

BUCKETS.

Pump, Rubber.
Wychoff.....per gro. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75
Well.
Galv'd Qts..... 10 12 14
Per doz.....$2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 4 00
" " swivel, " 5 10

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....30%
Tinners' Iron Burrs only.....65&5%

BUTTS.

Cast Iron.....70&5%.
Wrought Brass (New List).....40%
Wrought Steel, Bright.
Wrought Steel, Japanned.
Nos. 731 and .....70&10%

CALIPERS.

Double.....65&5%
Inside and Outside.....65&5%
Wing.....70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M..... $3 75
Toe.
Shoenberger.....per lb 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons..... 20 30 40
Each..... $4.25 $5.00 $6.25
Milk.
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz.....$26.00 $27.00 $29.00
Chicago Pattern.
Nos..... 105 108 110
Per doz.....$19.00 $21.50 $23.00
Iowa Pattern.
Nos..... 408 410
Per doz..... $23.50 $24.50
New Elgin Pattern.
Nos 705 708 710
Per doz.....$25.00 $27.00 $28.00
Burn Pattern
Nos..... 700 701
Gals..... 8 10
Price..... $2.40 $2.65

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each, $3 85
Diamond, Sling..... " 6 50
Myers' Imperial ..... " 3 85
Myers' Clover Leaf..... " 4 00

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed.....60&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll's, No. C.....per dos. $4 25
Wildermuth's,.
Nos..... 1 2 3
Per doz.....$5.60 $5.75 $6.25
Nos..... 4 5 6
Per doz.....$6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs, $5 75
With Covert Snaps. " 5 00
With Slide..... " 3 25
Without Slide..... " 2 85
Bright Ox Chains.
½-in. $7.25; ⅜-in. $5.45 per 100 lbs.

Cable Coil Chain.
Inch..... 3/16 ¼ 5/16 ⅜
Per 100 lbs.$10.80 $8.00 $7.00 $6.20
Inch..... 7/16 ½ ⅝ ¾
Per 100 lbs.$6.00 $5.90 $5.75 $5.65
Inch..... ⅞ 1 1¼
Per 100 lbs.....$5.55 $5.55 $5.65
Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil.
Cow Tie Chains.
American, 2 toggle.....50&5%
" toggle and snap...50&5%
" open and closed ring.....50&5%
Halter Chains.
American, new list.....33⅓%
German.....60%
Niagara, new list 40%
Brown's, " 40%
Picture Chains.
Light Brass, 3 ft.....per doz. $0 65
Heavy Brass, 3 ft .... " 1 00
Pump Chain
Galvanized, per 100 lbs.....$5 50
Safety Chain.
Brass.....60%
Special Steel Loading Chain.
Inch..... ¼ 5/16 3/8
Per 100 lbs.....$16.00 $13.50 $12.50
Stretcher Chains.
5/16-in. $8.50; ⅜-in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's.....70&5%
Trace Chains.
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.
Wagon Stay Chains.
Inch..... ½ 5/16 ⅜
Per 100 lbs.....$6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gro. 75c
Red..... " 65c
White..... " 55c
Common White School Crayon..... " 8c

CHARCOAL.

In bags.....per bag 90c

CHECKS, DOOR.

Blount.....33⅓%
Sargent's.....33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box.
Inches..... 10 12 14
Round per doz....$2.10 $2.25 $2.75
Flat " ... 2.85 3.60 4.20
Cold.
Good quality, ⅜ in. and larger.....per lb. .12c
Smaller size per doz.....
Socket, Framing and Firmer.
Clover.....75&10%
Tanged, Firmer.
With handles.....30&5%
Choppers, See *Cutters, Meat.*

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood,
Gal..... 5 7 10
Each.....$3.90 $4.60 $4.85
Belle, Barrel.....65&7½%
Common Dash, Gal. 4 5 6
Per doz..... $7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each.....$3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....30%
Carpenters'.
Steel Bar.....25%
Hose.
Sherman's, brass, ½-in., per doz.. 42c
Double, brass, ½-in., " 90c
Saw Filers.
Disston's list, $30.00.....30%
Stearns', No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1, $6.00; No. 3 $7.50.

CLAWS, TACK.

Cast, wood hdle..... per doz.45@60c
Forged steel, wood hdle " $0.80
Solid steel..... " 1 00
Giant..... " 50

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%
Pot.
Wire.....per doz. $0 55
Side-Walk.
Steel.....per doz. $3 25
XLCR .....65&5%

CLEAVERS

Family.
Griffin, Inch..... 6 7 8
Per doz.....$5.50 $5.75 $6.25
Royal.....per doz. 2 25
Butchers.
Plumbs.....25%

CLEVISES

Malleable .....5½c lb.

CLIPPERS.

Bolt.....$1.90@4.75

CLIPS.

Axle.....65&5%
Damper.
Standard.....per doz. 65c
Troy..... " 38c
Hame..... " 17

CLOTH.

Emery.
Star.....50%
B. & A.....50%
Hardware Wire—full rolls (100 ft.)
2 to 3 incl., Galv.—in full roll... 2 75
4 and 5..... " .. 3 00
6..... " .. 3 25
7 and 8..... " .. 3 75
Screen Wire.
12 mesh, painted, per 100 sq. ft.. 1 35

COCKS AND FAUCETS.

Compression Plain Bibbs...60, 10&5%
Lever Bibb Cocks.....60, 10&5%
Compression Hose Bibbs . .50—10&5%
Telegraph Faucets (new list)..50—5%
Racking Cocks (new list)...60, 10&5%
Compression Lock C'ks(new list).70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per doz....$0 85
Milk Can Faucets, per doz..$2.60-4.20
Petroleum Faucets .....75&5%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin..per gro.$1.90 $2.40 $3.50
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass" 3.00 5.50 4.25

COMBS, CURRY.

Nos... 000 11 15 39 89 108
Per
Doz..$.37 .60 1.90 .90 1.15 .80
Nos... 299 320 390 532 620 1400
Per
Doz.$1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

Carpenters'.....60—10—10%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 30c
1½ lb.....31c 2 lb... " 29c
3 lb and larger..... " 26c

CORD.

Picture
White Wire (new list) .....85&10%
Sash.
Monarch Braided Flax ...per lb
Silver Lake. white. 7-32 in. "
Silver Lake, white, 8-32 in. "
Keystone.....8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&30%

COUPLINGS, HOSE.

Brass.....per doz. $
Brass Plated..... " 85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine....per doz.$22 75

CRAYONS—See Chalk.

CROW BARS.

inch or Wedge Point.....per lb 3½c

CUTTERS.

Glass.
Red Devil.....45%
Smith & Hemenway Co.....50%
Woodward.....40%
Meat.
Enterprise, Nos. 5, 10, 12, 22, 32 and 42.....25%
No. 202, list, $1.50 ea.....40&7½%
Pipe.
Stanwoods. No.... 1 2 3
Each.....$0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife Slaw..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Jewel.....50&10%
American..... 50%

DIES AND STOCKS.

Discount.....40%
King's, Little Giant.....33⅓%

DIGGERS.

Post Hole.
Acme.....per doz. $9 25
Atlas..... " 9 00
Eureka..... " 7 50
Hercules..... " 10 25
Iwan's Split Handle.. " 7 50
Iwan's Perfection.... " 9 00
Iwan's Hercules pattern " 10 00
Ryan's..... " 17 00
See also Augers—Post Hole.
Dividers, Wing.....65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel, painted...per doz. $7 93
1⅛ in. 4-panel, painted... " 9 50
1⅛ in. 3-panel, natural pine, fancy..... " 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....60&10%
Blacksmith's Twist.....60%
Breast.
Fray's No. 9.....each, $1 75
Millers Falls No. 12..... " 2 10
Hand.
Goodell's Automatic.
Nos..... 01 03 3 20
Per doz.. $7.75 $12 50 $12.50 $11.00
Goodell's Single Gear. per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's.....per doz. 16 50
Bit Stock.
Standard List . . 60&5% @60% @10

DRIVERS, SCREW.

Standard.....65&10%
Lock Ferrule.....60%
Champion.....40&10%
Champion Pattern.....70%
Clark's Interchangeable.....30%
Edison.....60%
Reed's Lightning.....45&5%
Goodell's Spiral.....50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral.....50&10%
Smith & Hemenway Co.....40&5%

EAVES TROUGH, GALVANIZED.

Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz...$0.75 $0.85 $1.20
Plan'd, " 1.80 2.00 2.65
Corrugated Conductor.
Discount.....75&10%
Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz..$0.85 $1.00 $1.50
Pol'd, " .. 1.40 1.65 2.25
Plan'd, " .. 2.15 2.65 3.40
Four-Piece Stove.
Inches..... 5 6 7
Smooth, per doz..$0.60 $0.65 $0.95
Planished, " .. 1.40 1.70 2.30

EMERY CLOTH—See Cloth.

EMERY TURKISH.

Size .....5-lb. pkgs, ½ kegs, kegs.
No 60 to 150, per lb.. 6c 4c 4c
Flour..... " ... 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans.....per doz. 1 65
Peerless..... 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5%
Hooks and—
Brass.....50&10%
Iron.....70%

FASTENERS, STORM SASH.

Schroeder's.....per doz. $0.85
Sensible..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta.....70%
Kearney & Foot.....75&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

These goods are sold net this year.

Barley.
Steel New List.....65&10%
Wood, 4-tines, per doz.....$5 00
Coal, Coke, Cottonseed.....30%
Hay.
2-tine.....60%
3 " .....60&5%
4 " .....60&10%
Digging.....65&5%
Scoop.....30%
Header.
3-tine.....60&5%
4 " .....60&5%
Manure.
4-tine 60%
Ore.....40%
Spading.

FRAMES.

Hack Saw.
Union.....per doz. $5 75
Jenning's adj..... " 7 50
Cast..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each...$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform....each, $19 10
25 qt., " " " 22 60
25 qt., Sampson Power, " 43 50
40 qt., " " " 58 25
Ideal..... 3 25

GAUGES.

Butt and Rabbet.
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc......
.....50&10%
Saw.
Wire.
Disston's.....25%

GIMLETS.

Discount.....35@40%

GLASS, WINDOW.

Single.....90&20%
Double.....90&25%

GLASSES, LEVEL.

GLUE.

Bulk.
B Amber.....per lb. 12 c
A White..... " 15 c
H. S. Amber..... " 16½c
Liquid.
Army & Navy.....40%
Le Page's—
List "A".....37½%
List "B".....33⅓%
List "C".....25%

GOODS.

Bright Wire.....90%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gro. $5 50
Frazer's..... 9 50
Hub Lightning..... 5 25
Paragon..... 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each.
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross.....$9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....33⅓%

GRINDSTONES.

Family.
Inches..... 7 8 9
Per doz.....$8.25 9.00 10.50
Loose.
Per ton.....$20 00@$21 00
Mounted.
Ball Bearing..... 1 2 3
Each.....$3.15 3.00 2.85
Common Bearing 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 19
Peg.
Common..... " 22
Patent, plain top..... " 47
Patent, leather top... " 52
Sewing.
Common..... " 22
Patent..... " 52

HALTERS.

Jute Rope.....per doz. $1 10
Sisal Rope..... " 1 85
Web..... " 2 00
Leather, rope tie..... " 8 50
Leather, leather tie..... " 11 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs.....60&5%
Engineers'.
Plumbs.....60&5%
Farriers'.
Plumbs.....40&10%
Machinists'.
Plumbs.....60&5%
Nail.
Plumbs.....40&7½%
Quaker City.....per doz. $3 50
Cast..... " 1 15
Maydole's.....30&5%
Riveting.
Plumbs.....40&12½%
Shoe.
Cast.....per doz. $0 75
Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid..... " 1 55
Magnetic..... 1 2 3
Per doz.....$0.70 .80 1.00
Magazine.. .....per doz. 4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs . .....80&5%
5 lbs. and over.....80&10%
Masons'.
Single and Double Face.....80&5%

HANDLES.

Auger.
Common Assorted....per doz. $0 38
Peck's Adjustable.... " 2 10
Ives' Adjustable.....per set, 1 35
Axe.....60%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged, Firmer, Assorted, 29c; Large, 38c per doz.
Applewood, Socket, Firmer, Assorted .....per doz $0 24
Coal Pick.....50&10%
Drift ng Pick.....50&10%
File, assorted, 13c; Large, 16c per doz.
Hammer.
Adze Eye.....per doz. $0 40
Blacksmiths'..... " 40c@70c
Machinists'..... " 45c@70c
Hatchet..... " 40
Hay and Manure Fork.....30%
Hoe and Rake.....30%
Plain.....per doz. $0 75
Varnished..... " 80
Screw Driver.
Assorted..... " 37
Large..... " 48
Shovel and Spade.....33⅓%

HANGERS.

Barn Door.
Nansen.....60&10%
Matchless.....70&10%
Storm King.....60%
World's Best.....50%
Wagner's Adjustable.....70&10%
Warehouse.....60%
Conductor P.
Griffin.....70&10%
Iwan's Perfection.....50%
Eave Trough.
Baker's.....per gro. $2 35
Imperial.....20%
Wire.....33⅓%
Parlor Door.
Acme.....per set, $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
Lane's New Model.... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5%

HASPS.

Hinge, Wrought.....40%
With Staples—See Staples.

HATCHETS.

Crown.....50-10&5%
Cast Claw.....per doz. $1 20%1 45
Cast Shingling.... " $0 95@1 20
Germantown.....40%
Plumbs.....33⅓&5%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.....per doz. $9 00
Wenzleman's No. 2..... " 9 00

HINGES.

Blind.
Clark's Gravity ... per doz. sets, 95c
Parker's.....65%
Shepherd's Noiseless, for Wood Casing.....per doz $1 05
Gate.
Clark's..... 1 2 3
Hgs & Ltch. . doz. $2.50 2.90 4.00
Hinges only... " 1.90 2.20
Latches only . " .70 .75
Knuckle.....per doz prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 50
Spring.
American.....20%
Chicago.....25&5%
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable.....per gro. $11
Matchless.....30%
New Idea.....per gro. $8 00
Oxford.....20%
Wrought Iron
New Lists .....
McKinney
Light Strap Hinges.....60%
Heavy Strap Hinges.....65%
Light T Hinges.....55%
Heavy T Hinges.....45%
Extra Heavy T Hinges.....60%
Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $3 75
14 to 20 in..... " " 3 65
22 to 36 in..... " " 3 40
Screw Hook and Eye.
⅝ in.....per 100 lbs. $6 75
⅝ in..... " " 7 75
½ in..... " " 9 75

HOES

Garden .....70&10%
Grub.
Extra.....70%
Hazel.....per doz. $5 00
Ladies' and Boys'.....75%
Mortar.....75&10%
Planter's Eye.....62½%
Weed.....75&15%

HOLLOW WARE—See Ware.

HOOKS.

And Eyes.
Brass.....50&10%
Iron.....65&10%
Awning.....per gro. $1 00
Belt.
Brown's.....70&5%
Jones'.....65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's..per doz. $2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle. per doz. $7 00
Chain.
Inch..... ¼&5/16 ⅜ 7/16 ½
Per 100...$7.60-8.10 9.75 11.50 12.60
Clothes Lines.
Japanned .....per doz 22c@24c
Galvanized..... " 40c
Coat and Hat
Cast Iron .... per gro. 72c@$1 50
Gem Wire.....70%
Conductor.
Malleable.....25%
Wrought.....20%
Corn.
Common, unpolished, per doz. $1 50
Little Giant..... " 3 25
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 2 75
Hammock.
With plate.....per doz. 50
With screw..... " 45
Lambrequin, or Drapery, per gro. .21c
Picture.....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring.....per lb. 5½c

HOOPS, TUB.

Elastic ... per case of 2 doz.... $1 50

HOSE, GARDEN.

		Coupled, per ft.
Heron, 3 ply-½" guar. press	55 lbs.	7½c
Crane.. " " "	75 "	8½c
Falcon " " "	95 "	9½c
Eagle " " "	120 "	10½c
Condor " " "	150 "	11½c
High Test " " "	200 "	12½c

COTTON COV. RUBBER HOSE.

High Grade-½"-guar. press.	400 lbs.	11½
Special " " "	300 "	9½c
Leader " " "	100 "	7½c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.....$2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro.....$5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro.....$3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's.
No..... 1 63 200 400
Per doz.....$0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 .50 1.25 1.25
Nos..... A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals.—First column.

IRONS.

Curling.
X.....per doz. $0 40
Y..... " 50
Z..... " 58
Jewel..... " 85
Imperial..... " 1 00
Pinking..... " 70
Plane.
Wood Bench.....20&5%
Sad.
Charcoal.....per doz.$11 00
Common, polished, per 100 lb. 4 50
Common, nickel plated, 5 25
Chinese Polishing.....per doz. 7 40
Laundry, No. 1..... " 5 75
Laundry, No. 2..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise, per set 93
No. 55 J, " " 90
No. 50 T, " " 1 00
No. 55 T, " " 96
No. 50, Bless & Drake " 93
No. 55, " " 99
Tailors' Sad.....per lb. 5½
Tailors' Geese..... " 5½
Tuyere.
Single Duck Nest.....per doz $5 25
Double Duck Nest .. " 6 25
Sutton.....each.... 2 60

JACKS.

Locomotive.....70%
Wagon.
Oliver,
Nos..... 0 00
Each.....$0.60 $0.80

Standard.
Nos..... 1 2
Each.....$0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.90

KETTLES.

Brass.....15%
Cauldron.....40&5%
Copper..... per lb., 27c
Maslin.....65%
Sugar.....50%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, doz.$3 85
California..... 3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard.....70%
Adjustable.....15%
Barton's Carpenters'.....10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge...doz. $10 50
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 00
Iwan's, Sickle Edge..... " 9 50
Iwan's, Impv'd Serrated . " 10 00
Lightn'g, Holt's Genuine. " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point.. " 8 50
Hedge.
Challenge.....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single..... " 40
Common, Double..... " 50
Streeter, 4-Blade..... " 1 30
Streeter, 6-Blade..... " 2 00
Putty.
Common.....per doz. $0 00@1 00
Lander'r..... " 1 40@1 75
Scraping.
Beech Handle..... 75@1 00
Lander's..... 5 25@6 00

KNOBS.

Door.
Mineral.....per doz. $0 80
Porcelain..... " 90
Jet..... " 90

LADDERS.

Common Long.
Per ft.....9c@14c
Extension.
Per ft.....14c
Step.
Common, per ft.....7½c
Common, with Shelf, add 10c.
Keystone.....15c
Triumph, per ft.....20c

LANTERNS.

Bull's Eye Police.
3 -in. Flash Light....per doz. $6 00
2¾-in. Regular..... " 4 90
3 -in. Regular..... " 5 50
Tubular.
Buhl . . . . . .net prices.

LEADERS, CATTLE.

Nos..... 1 2 3
Per doz..... $0 55 .70 2.75

LEATHER, LACE.

Cut.....33⅓%
Sides.
Ex. Quality ..... per sq. ft., 27

LEATHERS, PUMP.

Valve and Plunger.....10%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
Alaska, Nickeled. " 5 00
Transom.
Payson's.....80%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos.... 4 6 7 8 9
Gross...$1.50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Mansons', in 100-ft. hanks...doz. 80c
Clothes.
60-ft. Jute.....per doz. $0 95
72-ft. Jute..... " 1 15
60-ft. Sisal..... " 1 40
72-ft. Sisal..... " 2 15
50-ft. Cotton..... " 1 15
50-ft. Braided Cotton. " 25

LINING, STOVE.

In Bricks .....per crate, 42c

MACHINES.

Boring.		Without Augers	With Augers
Angular.....	per doz.	3 00	4 40
Upright.....	"	2 60	4 00
Leather Riveting.			
Chicago, Pomeroy....	per doz.	$9 00	
Excelsior.....	"	2 00	
Handy.....	"	2 00	
Little Giant.....	"	3 00	
Pony, Pomeroy.....	"	7 20	
Washing.			
Winner.....	per doz.	54 00	
Keystone.....	"	54 00	
U. S. Steel.....	"	60 00	
Advance, f.o.b.Chicago	"	24 50	

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small....per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 2 25
" Lignumvitæ... " 4 00
Square Hickory..... " 2 25
" Lignumvitæ... " 4 50
Tinners'.
Applewood..... " 1 70
Hickory..... " 1.00@1 50
Hickory Sheet Iron... " 1 50

MATS

Door
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
Stove.
No. 2.....per gro. $3 25
No. 1..... " 3 50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1 10
No. 2 Asbestos Toasters, with ring.....per doz. 60

MATTOCKS.

Plumbs.....65&10%
Extra.....60%

MAULS.

Iron, lbs..... 10 13 16 18
Per doz.... $4.00 4.50 5.25 5.60
Wood face, lbs..... 10 12 14
Per doz..... $5.00 5.50 6.00
Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

	½ pk.	1 pk.	bu.
Galvanized, per doz.	$2.25	3.00	3.85
Japanned.. "	1.75	2.45	3.15

MICA.

First Quality.....20%
Second Quality.....25%

MILLS, COFFEE.

Enterprise.....25%
Parker.....40-12½&2½%
Arcade.....40-12½&2½%

MITRE BOXES.

See Boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen....$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Gladiator—B. B.
Inches..... 16 18 20
Each..... 6.50 7.25 8.00
King Universal—B. B.
Each..... 5.25 5.75 6.00
Inches..... 14 16 18
Big Giant..... 3.50 3.90 4.25
Little Giant..... 2.50 2.65 2.75
Philadelphia.
All Styles, except A & E, 60, 10&10%
Style A.....50&10%
Style E, High Wheel....60, 10&10%
Drexels.....40%
All Day .....Net Price

NAILS.

Cut Steel .....rates, $2 50
Cut Iron..... 2 00
Wire.
Small Lots..... $2 40
Carload Lots..... 2 35
Cement Coated..... 2 30
Horse Shoe.
Ausable.....55&5%
Capewell.....15%
Perfect.....55&5%
Putnam.....20&5%
Star.....35&5%
Clover Leaf ..... per lb., net, 10½c
Picture.
Brass Heads.....25%
Brads.....85%
Furniture.....15%

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized beforeweaving .80,10&2½%
Galvanized after weaving.....80&7½%
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Inches 5½ 6
Per dozen..... $4.00 4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co....60%
Hoof.
Heller's.....40&10%
V. & B.....55&5%

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 90
Magic..... " 3 60
Mystic..... " 3 00

NUTS, HOT PRESSED.

Square Blank.
In ½ 9/16 ⅝ 11/16 ¾ ⅞
lb 9½c 8c 6½c 5½c 5½c 5c 4½c
Square Tapped.
In. ½ 9/16 ⅝ 11/16 ¾ ⅞ 1
lb. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5-lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60%
Zinc.....60%
Engineers'.
Cannon.....55%
Tin .....per doz. $2 00@$2 25
Machine.
Common.....per doz. $0 58
Copper Plated Steel... " 1 00
Malleable Iron.....60, 10&5%
Japanned.....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat.....per doz. $2.85 3.60 4.15
Round.... " 2.10 2.25 2.75
Can.
Delmonico .....per doz $1 20
Never Slip..... " 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. 11 00
Economy..... " 4 65
Family..... " 9 75

PADLOCKS.

Standard Wrought.....75&5%
Champion.....50%
Eureka.....40, 10&5%
Yale.....60&5%

PAILS.

Cream.
14-qt , without gauge, per doz. $2 50
20-qt., " " " 3 00
20-qt., with gauge.... " 3 50
Sap.
10-qt., Galvanized, per 100....$13 00
12-qt., " " 14 50
14-qt., " " 16 25
16-qt., " " 17 75
10-qt.,IC Tin..... " 10 25
12-qt., " .... " 11 75
14-qt., " .... " 13 00
10-qt.,IX Tin.... " 12 75
12-qt., " .... " 16 00
14-qt., " .... " 17 00
Stock.
Galv'd, qts. 14 16 18 20
Per doz..... $3.75 4.00 4.75 5.25
Water.
Galvanized... qts. 10 12 14
Per doz..... $1.95 2.20 2.45
Wood.
Cable, 2-Hoop.....per doz. $1 70
Cable, 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop.... " 1 60
Standard, 3-Hoop.... " 1 80

PANS

Dripping.....60&5%
Fry
Common .....75&10%
Acme 70%
Roasting.
Paxton,
Nos..... 1 2 3 4
Per doz.... $4.75 5.75 6.50 7.50
Neverburn .. 4.00 4.50 5.50 6.00
Savory, No. 200..... per doz. $8.00

PAPER.

Building.
Plain.....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 65
No. 20, Red Rosin....per roll. 40
No. 30, Red Rosin.... " 55
Sand and Emery.
Star ..... low list, 50%
B. & A.....50%
Wrapping.
Drab Fiber.....per lb. $0 00
Rag..... " 0 00

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable..... " 0 00
White Mountain..... " 5 00
Reading..... " 7 00
Potato.
Goodsell's Saratoga, 10½ in., doz. 6 50
Goodsell's Saratoga, 5 in., doz. 5 50

PICKS.

Adze Eye Ore.....70%
Drifting and Poll Picks.....70%
Plumbs, Railroad.....70%
Surface.....70%

PINCERS.

Carpenters', cast steel.
Inches..... 6 8 10 12
Per doz..... $2.00 2.60 2.95 3.75
Blacksmiths'.....45%
Heller's.....40%

PINS.

Clothes.
Common.....per box of 5 gro $0 52
Hoyt's..... " " 31
U. S..... " " 70
Picket.
Fluted, 15-in.....per doz. $0 70
Fluted, 21-in..... " 1 60
Spiral..... " 1 90

PIPE.

Conductor.
Lead.
Full coils .....per lb. 7½c
Cut coils..... " 7¾c
Stove
Acme—Inches.... 5 6 7
Smooth, per jt... 8¾c 9½c 10½c
Planished, " 32 c 33 c 43 c
Peerless—Smooth, 7¾c 8 c 9¾c
Polished.....14½c 15½c 18 c
Planished.....28 c 31 c 35½c
Made-up—Inches.. 5 6 7
Smooth..... 7½c 8 c 9½c
7 to 6 in. Smooth Tapers, pr jt...13c
6 in. Smooth T's..... " 27c
7 to 6 in. Planished Tapers.....45c
Yale Patent Lock Pipe—Stove.

Blue Steel:	5"	6"	7"	7" to 6"
	—Cents—			
Battle Axe Blue...	7	7¾	9½	10½
Can't Slip " ..	7½	8½	10	11
Peerless " ..	7½	8½	10	11
Duplex " ..	10	11	13	14
Yale, Rus. Fin....	15	16	17	18
Duplex Planished.	29	31	37	38
Galvano, Gal.....	15	16	17	18

If wanted made up, add per joint or grooved, 1c; riveted, 1½c. Crating made-up pipe extra.
Wrought Iron Gas Pipe.
¼@⅜-in., black.....discount, 60%
½@½-in., black..... " 60,10&5%
¾-in. to 6-in, black... " 70%
7-in. to 12-in., black... " 62½%
¼@⅜-in., galvanized.... " 42%
½@½-in., galvanized.... " 50%
¾-in. to 6-in., galvan'd " 57½%
7-in. to 12-in., galvan'd " 45%

PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench .....25&5%

PLANTERS.

Corn.
Monitor.....per doz. $7 75
Triumph..... " 6 00
Segment..... " 9 00
Potato.
Acme.....per doz. $6 25
Challenge..... " 11 00
Pingree..... " 2 25
Eureka..... " 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—Ins.. 4½ 6 8 10
Per doz..... $2.75 3.35 4.15 5.15
Button's Pattern.
Inches..... 4½ 6 8 10
Per doz..... $2.25 2.75 3.25 4.25
Cutting
Bernard's.....30%
Lodi.....50%
End and Diagonal Cutting
Swedish Side.....70%
Utica Drop Forge & Tool Co....50%
Fencing.
Farmers' Choice.....per doz. $8 00
Russell's..... " 8 25
Flat and Round Nose.
Bernard's.....30%
German.....65%
Lodi.....50%
Paragon.....50%
Gas.—Inches.. 7 8 10 12
Per doz..... $3.00 3.50 4.50 5.50

Tinners'.
Hollow.....40%
Solid.....each, 5½c

PLUMBS AND LEVELS

Common .....60&10&10%
Cook's.....40%
Davis' Iron 25%
Davis' Inclinometer.....15%

POINTS

Drive Well Points.....75&5%

POKERS, STOVE.

Wr't Steel, str't or bent, per doz. $0 55
Wr't Steel, wood hand'ls " 80
Nickel Plated, coil hand'ls " 65

POKES, ANIMAL.

Cracker Jack, wr't steel, per doz. $4 50

POLISH.

Metal.
Pride of the Bar..... $1 60
Putz Cream,
Pts..... 1-6 ½ 1
Per doz. $0.80 1.10 1.65
Pts..... 1 2 3 8
Per doz..$2.75 4.50 7.50 12.50
White Silk, half pints, per doz, $2 00
White Silk, 6-oz. cans, per doz. 1 00
Wondershine,
Pts..... 1-6 ½ 1 2
Per doz. $0.70 1.35 2.25 3.00
George William Hoffman
U. S. Metal Polish Paste, 3-oz boxes, per doz , 50c; per gro 4 55
½-lb. boxes.....per doz 1 20
1-lb. boxes ..... " 2 25
U. S. Liquid, 8-oz cans, per doz , $1.25.....per gro 12 00
Barkeepers' Friend Metal Polish .....per doz 1 75
.....per gro 18 00
Shoe.
M. C. D.....per doz.....36c@50c
F. C. O..... " 40c
T M..... " .55c@$1 75
Imperial.....per gro 5 00
Stove.
Black Eagle, 1-lb. cans, pr gr, $15 00
Black Silk—
5-lb. pail..... $0 75
Paste, 5-oz. cans....per doz. 75
Paste, ½-lb. cans .... " 1 05
Liquid, ½-pt. cans... " 1 00
Liquid, 6-oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1-lb. cans...per gro. 13 00
Black Jack, ¼-lb. cans. " 9 25
Dixon's Card. of Iron. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1-qt. per doz. $1 05
Square, 1½-qt..... " 1 15
Square, 2-qt..... " 1 35
4-qt..... " 3 75

POTS, FIRE.

Bernz.....each, $3 85
Clayton & Lambert's,each,$4 75@6 25
Gate City.....each, 6 25
Gem.....each,$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25%
Henis.....per doz. $1 85

PRIMERS

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

PULLERS.

Cork.
Daisy..... each, $3 10
Phœnix..... " 1 40
Quick and Easy..... " 2 70
Nail.
Giant.....per doz. 10 50
Giant Pattern..... " 6 00
Jumbo..... " 9 00
Tack—Giant..... " 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5-in.....per doz. $1 75
Wood Wheel, 6-in.... " 1 75
Wood Wheel, 6-in., pass knot, ...per doz. 2 15
Hot House—Jap'd.....50&10%
Screw—Jap'd.....60%
Side—Jap'd.....50&10%
Sash.
Common.....per doz. $0 20
Common Sense, 2-in.. " 20
Empire Pattern, 2-in.. " 20
Ideal..... " 20
Steel..... " 25

PUMPS.

Pitcher Spout.
Nos..... 1 2 3 4
Each..... $1.00 1.15 1.30 1.70
Spray.
Blizzard.....per doz.$14 50
Cyclone, tin..... " 3 40
Cyclone, copper..... " 6 75
Daisy..... " 9 00
Little Giant.....each,... 2 25

PUNCHES.

Conductors'.
No 22.....per doz $2 25
Machine.....per lb 19
Saddlers'.
Common ... .per doz 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Matchless, 1-in..... 3 c
Matchless, 1½-in..... 3½c
Storm King..... 4 c
Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron...per ft. 8½c

RAKES.

Coal or Wood.....per doz. $5 20
Garden.
Steel.....70%
Steel, bow.....70%
Malleable iron, heavy.....60&10%
Hay.
Wood.....$1 50@$2 00
Lawn—Wood.
XXX.....per doz. $3 00
Automatic..... " 5 25
Lawn Queen..... " 2 75
Jumbo, 36 teeth..... " 5 25

RASPS—See Files.

RAZORS.

Bo-ras-ic.....50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.
Black and White Japanned, Reg. and Border .....70&10%
On Face .....75&10%

RINGS.

Bull.
Copper.....2½ in. 3in.
Per doz.....$1 10 $1 40
Rea's Improved Self-Piercing copper, pr doz 2 00 ....
Steel, per doz..... 85 95
Nickel plated..... 1 35 ....
and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... 50
Brown's Ringers..... " 80
Champion Ringers.... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes.... " 47
Major Rings..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers.... " 80
Fruit Jar.
White.....per lb.....30c
Key.
Split, round.....per doz. $0 17
Split, square..... " 32
Ball, round..... " 32

RIVETS.

and Burrs.
Copper Belt.....40%
Coppered Iron.....60&10&5%
Tinners'.....60&10%
Hame.....per lb. $0 10
Slotted Clinch per doz 40c@45c
Tubular
Nos 1 and 2 assorted sizes, doz, 45c

RIVET SETS

See Sets.

ROPE.

Cotton.
¼, 5-16 in. Com on reels. .per lb. 11½c
¼, 5-16 in Com. in coils. . " 12 c
¼, 5-16 Imperial in coils.. " 21 c
Sisal
1st Quality .....12 c
Hardware Grade, rates, per lb...10 c
Pure Manila.
1st quality.....per lb.15½c
Hardware Grade, rates... " 14½c

RULES.

Boxwood.....50&10%
Ivory.....

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Disston's.....25%
Jackson's.....25%
Butchers'.
Disston's.....30%
Circular.
Disston's.....50%
Hiles'.....50&10%
Compass.
Common.....per doz $1 35@1 60
Disston's .....%25
Cross-Cut
Disston's.....45%
Dehorning.
Disston's.....per doz. $5 75
Hack.
Disston's.....25%
Keystone.....30%
Hand and Rip.
Brown's.....30%
Disston's No. 7.....30%
Disston's Nos 8, D8, 12, 76, 112, D100, and 120 (new list).....25%
Keystone.....30%
Enterprize, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....25%
Kitchen.
Sterling 25%
One Man.....50%
Panel
Brown's 30%
Disston's No. 7.....30%
Disston's No. D100.....25%
Pruning.
Brown's 25%
Disston's 25%
Wood
Common.....per doz. $4 50
Clover Leaf..... " 6 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

AW FRAMES.

Common, plain.....per doz. $1 25
Common, painted..... " 1 70

SCALES.

Counter.
Pelouze.....40&10%
Platform.
Osgood.....50%

SCOOPS.

Grain.
½-bu. "Hercules".....per doz. 13 70
1-bu. "Hercules"..... " 15 00

SCRAPERS.

Box.
Triangular.....per doz. $4 00
Cabinet.
Cast Steel . . . . per doz , 60c@75c
Road.
Cubic ft. 7 5 3
Without run's, ea. $4.00 3.75 3.50
With runners, ea.. 4.25 4.00 3.75

SCREWS.

Bench.
Iron, in..... 1 1½ 1¾
$3.50 4.00 4.75
Wood, white maple...per doz. $3 50
Hand—Wood.....10%
Hand Rail.....80&10%
Jack.....70&10&5%
Lag or Coach—all sizes, gimlet pointed.....75&5%
Saw—Centennial
Nos .. 1 2 3 4 5 6
Per doz. 18c 20c 26c 30c 23c 25c
Wood.
F. H. Bright.....87½&5%
R H Blued.....85%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

SCYTHES.

Be Ve Be, grass.....per doz. $8 50
Clipper, grass..... " 8 00
Clover Leaf Dutchman. " 8 00
Honest Dutchman..... " 8 00
Be Ve Be..... " 8 00

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 3
Square, common..... " 4
Octagon, common.... " 3
No. 5, square..... " 7
Cup point, knurled... " 7

Rivet.
Farmers'.....per doz. $1 2
Tinners'.....50&10%

Saw.
Aiken's Pattern.....per doz $3 5
Common Lever..... " 1 20
Disston's Monarch.... " 6 50
Disston's X Cut ..... " 12 00
German..... " 1 05
Morrill's Old Style.... " 5 00
Morrill's Pattern..... " 3 25
Leach's..... " 80
Nash's Hand..... " 3 15
Nash's X Cut..... " 4 20
Stillman's Lever..... " 1 30
Stillman's X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz $1 60
Smith & Hemenway 20%

SHAVES, SPOKE

Iron.....per doz $1 10@1 85
Wood ..... " 2 75@4 75
Bailey's .....50&5%
Goodell's 15%

SHEARS

Pruning
Buckeye, No. 1.....per doz $5 75
Buckeye, No. 2..... " 7 40
California Pat., 9-in.. " 3 20
Cailfornia Pat., 10-in.. " 4 00
Draw Cut, No. 3..... " 13 75
Draw Cut, No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 2.10 2.90 2.80
Star.....per doz $4 00

Sheep—No BBA.
Inches..... 6 6½ 7
Reg. Grip.....$11.25 11.50 12.00
Nar. Grip.,doz.... 11.00 11.25 12.25

Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 .42 .70

Hatfield's.
Per set..... $0.75 1.00 1.00

SHELLS—See Ammunition.

SHELLERS, CORN.

Union.....per doz. $6 75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No 2 Woodford.....per doz. $5 50
No. 182..... " 6 00
Ames' new list .....Discount, 12½%

Per doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye.... " " " 10 00
Mohawk.... " " " 9 00

Drain.
Iwan's Perfection.....50%

Railroad, etc.
Black Diamond.....per doz. $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames, new list .....Discount, 12½%

Snow.
Per doz.....$1.65@$9.00

Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....50&10%
Enameled, White.....50&10%

Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $6 00
Patent Loop, Bush..... " 5 75
Patent Loop, Grass..... " 5 50

SNIPS, TINNERS'.

Clover Leaf.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.....30c 35c 40c 54c

Reliance.
Per doz ... light, $1.25; heavy, $2 50

Star.
Per doz . . . light, 90c; heavy, $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1 35

SQUARES.

Steel and Iron.....70&10%
(Add for bluing, $2.50 per doz., net.)
Miire.
Try.
Try and Bevel.
Try and Miter.
Fox's.....per doz. $5 75
Winterbottom's.....70%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood.. " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
Iron Frame, glass bowl . " 2 35
Little Giant, tin'd iron . " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated ... " 4 50

STAPLES

Blind.
Barbed.....per lb . . .9¼@9½c
Butter Tub..... " .....8 @8½c
Fence—less than carload.
Polished.....per 100 lbs. $2 30
Galvanized..... " 2 60
Netting.
Galvanized.....per 100 lbs. 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....80-10&10%
Extra heavy.....75&10%

STEELYARD.
Discount 25%.

STONES.

Axe.
Hindostan.....per lb 5½@7 c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60% @60&5%
Oil—Mounted.
Arkansas Hard.....per doz.$23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6½
Oil—Unmounted.
Arkansas Hard.....per lb $2 05
Arkansas Soft ..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End ..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated... " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz prs., $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's.....per doz. $6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per lb. $0 70
Wrought Steel.....per gro. 4 50

TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut.....90&20%
Upholsters' Wire.....90&10%
Double Pointed.....90%
Copper.....per lb. 32c
Canvas Nails.....75&5%
Clout Nails.....75&10%
Hungarian Nails.....80%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 30c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&5%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Disston's Universal.....40%
Miniature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Ballon.....per doz. $1 25
Harper's..... " 1 35
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker ..per doz. holes $0 13
Tin Choker..... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 3 75

TROWELS.

Brick.
Clover Leaf.....30%
Brade's.....15&5%
Disston's.....30%
Rose's.....20%
Plasterers'.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag .....each, $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed..... $3.00 3.85 5.50
Full Ironed..... 3.45 4.50 6.45

TUBS, WASH

Standard, Wood. Ex.
Nos..... 2 1 large
Per doz.....$5.00 6.00 7.00 9.50
Dowell.
Per doz..... 5.35 6.35 7.00 9.50
Cedar.
Per doz..... 6.10 7.10 7.00 10.80
Indurated.
Per doz..... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$6.00 6.75 7.75

TWINE.

Per lb.
3-ply Cotton Wrapping 25c
4 " " " 25c
" " Extra Wrapping.....27c
4 " " " Hvy. Wrapping 25c
4 " " Wrapping on tubes....27c
3 " " " " cones....25c
4 " " " " " 25c
India Hemp, ¼-lb. balls 19c
" " ½-lb. " 18c
" " ¼-lb. " .....doz. 75c
2-ply Jute, ¼-lb. " 14c
3-ply Jute, ¼-lb. " 13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....9½c
Seins.
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard..... " 27 26½ 26
Staging, ¼-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-p y "B" in hanks 18c
4- " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks...37c
Fodder or Lath.
130 strand.....6½c
200 strand.....—c

VISES.

Phœnix.....30%
Phœnix Oval Slide.
Inches..... 2½ 3 3½ 4½
Each..... $1.25 1.50 1.55 2.75
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....40&5%
Adams' Mechanics'.....each 2 50
Williamson's Universal.....60%

WARE.

Stove Hollow Ware.
Plain or Unground.....50%
Ground Ware.....45%
Enameled Ware.....33⅓%
Country Hollow Ware, per 100 lbs. $3 00
White Enameled Ware.
Maslin Kettles.....60&10%
Covered Ware.
Tin'd and Turn'd.....35&10%
Enameled.....45&10%
Glue Pots.
Tinned.....25%
Enameled.....30%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.

Standard O G. cast iron . . .per lb. 2½c
Wrought iron in bulk, per lb :
In. ½ ⅝ ¾ ⅞ 1 1¼ 1½
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5-lb. boxes, per lb.:
In. ½ ⅝ ¾ ⅞ 1 1¼ 1½
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—
See Machines.

WEDGES.

Ax.....per doz. $0 30
Galling.....per lb. 10½
Saw..... " 8½

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 00

WEIGHTS.

Hitching.....per lb. 2½c
Sash—f.o.b. Chicago....pr ton, 26 50

WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 30 00
Klondike Steel Tray.. " 28 00

WHEELS.

Corundum.....70&10&5%
Emery.....75&5%
Well. Inches.. 8 10 12 14
Per doz..... $2.40 3.25 4.00 6.00

WIRE.

Barbed. Painted. Galv'd
Carloads .. per 100 lbs. $2.65 $2.95
Less than car " 2.70 3.00
Brass.
In coils.....20%
In 1-lb. spools, new list.....50%
Broom—Tinned . . . 60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%,33⅓%
1-lb. spools, new list.....50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2 30
Nos. 6 to 9, Galv'd.. " 2 60
Hair—New List.....50%
Market.
Bright, full bdles.....70&5%
Bright, broken bdles.....70%
Coppered, full bdles.....70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....75&5%
Tinned, broken bdles.....65&10%
Picture—In coils . . . . 80% @80&10%
In 5-lb. spools.....per lb.....26c
Plain—Small lots..... $2 10
Car lots..... 2 05
Small spools 5c per 100 higher

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85cnet
Always Ready.....50%
Coe's Standard.....40&10&5%
Agricultural.....75&5%
Ellis Adjustable.....25%
Malleable "S".....per lb. 08c
Malleable..... " 08c
Stillson Pipe.....70%

BEMIS & CALL'S WRENCHES.

Improved Adjustable S nut.....40%
Improved Adjustable S pipe 40%
Briggs' Pattern nut.....40%
Combination Bright .....40&10%
Combination Black.....40, 10 & 5%
Steel Handle nut.....50%
Merrick Pattern nut.....50%

WRINGERS.

No. 22, Guarantee....per dos. $32 50
No. 110, Guarantee..... " 32 50
No. 110, Brighton..... " 23 50
No. 110, Bicycle..... " 31 50
No. 500, Royal..... " 32 50
No. 350, Universal..... " 28 00
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Watson Co., James, Bradley, Ill

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Pullman Mfg. Co., Rochester, N.Y

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Whitacre, J. R. Mfg. Co., Rockford, Ill

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Hungerford, U. T., Brass & Copper Co., New York, N. Y

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Zucker & Levett & Loeb Co., New York

Nuts

Columbus Bolt Works, Columbus, O

Oil Cans

Delphos Mfg. Co. Delphos, Ohio

Paints and Paint Specialties

Connors, Wm., Paint Mfg. Co., Troy, N. Y
Dixon, Jos. Crucible Co., Jersey City, N.J

Pencils

Dixon, Jos. Crucible Co., Jersey City N.J

Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Pipe—Furnace

Meyer & Bro. Co., F. Peoria, Ill

Pipe—Wall

Michigan Safety Furnace Pipe Co., The Detroit, Mich

Pliers

Schollhorn Co., Wm., New Haven, Conn

Plungers

Berger Bros. Co., Philadelphia, Pa

Polish—Metal

Nickel Plate Stove Polish Co., Chicago, Ill

Polish—Stove

Black Silk Stove Polish Works Sterling, Ill.
Nickel Plate Stove Polish Co., Chicago, Ill

Punches

Armstrong-Blum Mfg. Co., Chicago, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works., Buffalo, N.Y
Robinson, Mfg. Co., J. M., Cincinnati, O
Schollhorn Co., Wm., New Haven, Conn

Putty—Stove

Connors, Wm. Paint Mfg. Co., Troy, N.Y

Rasps

Disston, Henry & Sons., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa

Razors

Droescher, S. R., New York, N. Y
Smith & Hemenway Co., New York, N.Y

Registers

Foster, C. H., St. Louis, Mo
Henry & Scheible Co., Cleveland, O
Mueller, L. J., Furn.Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O

Rivets

Columbus Bolt Works, Columbus, O
Hungerford, U.T., Brass & Copper Co., New York, N, Y

Roasters

Wheeling Corrugating Co., Wheeling, W. Va

Roofers' Supplies

Auld & Conger Co., Cleveland, O

Roofing and Siding

Bassett & Pressley Co., Cleveland, O

Roofing—Iron and Steel

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Sykes Steel Roofing Co., Chicago, Ill
Wheeling Corrugating Co., Wheeling, W. Va

Roofing Cement

Auld & Conger Co., Cleveland, O
Connors Paint Co., The Wm., Troy, N.Y

Roof Paint

Dixon, Jos. Crucible Co., Jersey City, N.J

Rules

Lufkin Rule Co., Saginaw, Mich

Safety Thimbles

Paul, Richard, Cleveland, Ohio

Sash Balances

Pullman Mfg. Co., Rochester, N.Y

Saw Sets and Saws

Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt Co., Greenfield, Mass
Smith & Hemenway Co., New York, N.Y

Screens—Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks

Pullman Mfg. Co., Rochester, N. Y

Screws

Columbus Bolt Works. Columbus, O

Screw Drivers

Goodell-Pratt Co., Greedfield, Mass
North Bros. Mfg. Co., Philadelphia, Pa

Seamless Tubing—Brass & Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Seed Cleaners

Paxton & Gallagher, Omaha, Neb

Sharpeners—Tool

Royal Mfg. Co., Lancaster, Pa

Shears

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson, Mfg. Co., J. M., Cincinnati, O

Sheets—Black and Galvanized

Berger Mfg. Co., Canton, O
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished

Follansbee Bros., Pittsburg, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

Tanner & Co. Indianapolis, Ind

Sheet Metal Ornaments

Gerock Bros. Mfg. Co., St. Louis, Mo

Shelf Boxes

Green & Co., A. H., New York, N. Y

Shelf Brackets

Hessler Co., H. E., Syracuse, N. Y

Shovels

Avery Stamping Co., Cleveland, O

Siding

Milwaukee Corrugating Co, Milwaukee, Wis

Sifters

Stuber & Kuck, Peoria, Ill

Skylights

Berger Mfg. Co., Canton, O
Burt Mfg. Co., Akron, O
Eller Mfg. Co. Canton, O
Sykes Steel Roofing Co., Chicago, Ill

Skylight Gearing

Weiss, H. & Co., New York, N.Y
Sykes Steel Roofing Co., Chicago, Ill

Slate Roofing

Auld & Conger Co., Cleveland, O

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Statuary

Gerock Bros. Mfg. Co., St. Louis, Mo

Stoves and Ranges

Champion Steel Range Co., Cleveland, O
Clark & Co., Geo. M., Chicago, Ill
Culter & Proctor Stove Co., Peoria, Ill
Monitor Stove & Range Co., Cincinnati, O
Peninsular Stove Co., Detroit, Mich
Ringen Stove Co., St. Louis, Mo
Smith Stove Co., Chas., Chicago, Ill.
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa.

Stove Cement

Dixon, Jos. Crucible Co., Jersey City, N.J

Stoves—Gas

Stove & Range Co. of Pittsburgh Pittsburgh, Pa

Stove Mats

Stuber & Kuck, Peoria, Ill

Stove Patterns

Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N Y
Weller Pattern Co. Quincy, Ill

Stove Pipe

Hemp & Co., St. Louis, Mo

Stove Polish

Nickle Plate Stove Polish Co., Chicago, Ill

Stove Pipe Thimbles

Stuber & Kuck, Peoria, Ill

Stove Putty

Connors Paint Mfg. Co., Wm., St. Louis, Mo

Stove Repairs

Brauer, A. G., Supply Co., St. Louis, Mo

Stove Trimmings

Cleveland Nickel Works, Cleveland, O

Sugar Kettles

Sperry, D. R. Co., Batavia,

Supplies—Foundry

Obermayer Co., S., Cincinnati, O
Stevens, F. B., Detroit, Mich

Supplies—Stove Dealers'

Brauer, A. G., Supply Co., St. Louis, Mo

Tacks

Hungerford, U. T., Brass & Copper Wks New York, N. Y

Tapes

Lufkin Rule Co., Saginaw, Mich

Technologist

Hooper, C. N. Dubuque, Iowa

Thermometers—Oven

Evans Stamping & Plating Co., Taunton, Mass

Tin—Perforated

Harrington & King Perforating Co., Chicago, Ill

Tinners' Tools

Auld & Conger Co., Cleveland, O
Berger Bros. Co., Philadelphia, Pa
Lufkin Rule Co., Saginaw, Mich
Niagara Machine & Tool Works, Buffalo, N. Y
Smith & Hemenway Co., New York N.Y

Tinplate

American Sheet & Tin Plate Co., Pittsburg, Pa
Bassett & Pressley Cleveland, O
Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Merchant & Evans Co., Philadelphia.
Tanner & Co. Indianapolis, Ind
Wheeling Corrugating Co., Wheeling, W. Va

Tinware Trimmings

Berger Bros. Co., Philadelphia, Pa
Butler Bros., Chicago, Ill

Tools, Etc.

Bemis & Call Hardware & Tool Co., Springfield, Mass
Goodell-Pratt Co., Greenfield, Mass
North Bros. Mfg. Co., Philadelphia, Pa
Schollhorn Co., Wm., New Haven, Conn

Tools—See Carpenters' Tools

Tools—Linemen's

Smith & Hemenway, New York, N.Y

Tool Sharpeners

Royal Mfg. Co., Lancaster, Pa

Trowels

Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Inc., Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y
Plume & Atwood Mfg. Co., Chicago, Ill

Tubing—Heavy Tin

Dieckmann, Ferdinand, Cincinnati, O

Ventilators

Berger Mfg. Co., Canton, Ohio
Burt Mfg. Co., Akron, Ohio
Canton Mfg. Co., Canton, O
Crown Ventilator Co., Milwaukee, Wis
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Pullman Mfg. Co., Rochester, N. Y
Uno Ventilator Co., Lynn, Mass

Vices—Hand

Goodell-Pratt Co., Greenfield, Mass

Wagons

Sycamore Wagon Wks., Sycamore, Ill

Wall Register—Fittings

Meyer & Bro., Co., F. Peoria, Ill

Washers

Columbus Bolt Works., Columbus, O

Washing Machines

Brammer, H. F., Mfg. Co., Davenport, Ia
Rotary Washing Machine Co., St. Louis, Mo
White Lily Mfg. Co., Davenport, Ia & Toledo, O

Wire Goods

Denning Wire & Fence Co., Cedar Rapids,
Pittsburgh Steel Co., Pittsburgh, Pa

Wrenches

Bemis & Call Hardware & Tool Co., Springfield, Mass

Wants and Sales

For Paid Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they "READ THE ADVERTISEMENT IN THE AMERICAN ARTISAN."

BUSINESS CHANCES.

PATENTS Hubert E. Peck, 623 F. St., N. W., Washington, D. C., Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

WANTED—A line of small and cheap furnaces for this climate. Address George W. Schmitt Heating & Ventilating Co., Oakland, California.

FOR SALE—Full outfit and established business. Tin, furnace work, plumbing, wind mill and pumps, acetylene, etc. Good town in Northwest Missouri. More work than one man can do. High class custom at good prices. Rent low. Will sell for $300. Bargain for right man. Address M-12, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10-3t

Wanted to buy at once—Second hand set of tinner's tools for country use. Address William Weidenbach, Manteno, Illinois. 10-2t

For Sale—A well assorted stock of hardware in a good North Dakota town. Stock invoices about $3,500. Good reasons for selling. Address A. J. Edelbrock, Mylo, North Dakota. 9-3t

Wanted—A good partner in well paying tin and furnace business in Chicago. Must be sober and industrious. Address M-1, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-3t

$1,000 cash will take good hardware business. Balance on terms to suit. A snap for the man with the cash. Address M-4, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Illinois. 9-2t

For Sale—One-half interest in Guthrie Sheet Metal Works. Want a partner that can figure from blue prints and get work out. Write for particulars. Address Guthrie Sheet Metal Works, Guthrie, Oklahoma. 9-2t

For Sale or Exchange—For stock of hardware or groceries, 80 acres improved Illinois land. Near town of 18,000. Price $145.00 per acre. $4,000 incumbrance. Address W. R. Jones, Gibson City, Illinois. 9-3t

For Sale (Cash)—A well assorted stock of hardware and steam fittings. Will invoice about $6,000. Also two story brick store, built for hardware, with dwelling rooms on second story. This is a strictly cash business and will bear investigation. Address A. W. L. Hardware, Mt. Jackson, Virginia. 5-30

Wanted to Buy May 1st, 1908—Stock of hardware of from $3,000 to $5,000 in live business town. Prefer Wisconsin. Would rather rent building. Give full particulars in first letter. Address H-32, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 8-4t

For Sale—Stock of shelf hardware, stoves and tinware invoicing about $4,000.00. In good county seat of southern Indiana. Owner wants to go west reason for selling. Will sell with or without tin shop. For cash only. Can reduce stock. Address Lock Box 304, Salem, Indiana. 8-3t

Wanted—To Sell or Exchange—Some good Texas land for a stock of hardware, $3,500 to $5,000. Address W. A. Driggs, 416 South Main St., Clinton, Missouri. 8-3t

For Sale—Good, well established, paying, up-to-date hardware business with fixtures and tinner's tools. Annual sales $22,000. Clean stock. Town growing. Good location. Address Phil Neufeld & Company, Green Bay, Wis. 8-3t

TINNERS' TOOLS.

For Sale—Here is the chance of a lifetime; one set tinner's tools, including brand new O. K. 8 foot steel brakes, horse and wagon, hardware stock, house and lot, my interest for only $700.00 cash. This is giving it away. Cause for sale, not enough cash to do business. Address M-10, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10-3t

For Sale—One Moore's double Seamer No. 2 in good condition $12.00, one 30-inch P. S. & W. sheet iron folder some worn, but in good working order $4.00, or one practically new, same size, for $8.00. Cash price. Address M. A. Benson & Co., Saranac, Michigan.

For Sale—A duplex die stock with dies; threads from 2½ to 4 inches. In good condition. For price write to Reedsburg Hardware Co., Reedsburg, Wisconsin. 9-2t

For Sale—Set of tinner's tools. Almost all new. Peck, Stow & Wilcox make, including 1 new O. K. 8 foot steel brake. Also full set of slate roofer's tools, besides delivery wagon, harness, ladders and a lot of shop stock. All in good shape and will be sold for a good liberal discount, but not at junk prices. Will sell one or all together. Those meaning business address Box 28, Boston, O. 8-3t

For Sale—One No. 2 Moor's Double Seamer. Used but a short time. One Stow's Pat. 20-inch gutter beader. Could use small turning machine in exchange. Address F. G. Maihack, 404 Fourth Ave., Moline, Illinois. 8-3t

HELP WANTED.

Wanted—A good tinner with some experience in plumbing. Must be willing to work in hardware store and set up farm implements. Steady job for right man. State wages in first letter. German preferred. Address A. G. Serr, Tyndall, South Dakota. 10-2t

Wanted—A good all around tinner for country shop in dairy country, who has some knowledge of plumbing and heating. A steady job the year around for a good steady man. Must also understand pump work. State wages in first letter. Address Niethammer Brothers, Mokena, Illinois. 10-2t

Help Wanted—A competent tinner, strictly sober, one who can take care of store if necessary. Address M-11, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10-2t

Wanted—By April 1st, a first-class tinner. Must be able to do furnace work, plumbing and general job work. Must be sober and steady and work for the interest of his employer. To such a man will pay good wages. State full particulars in first letter. Address Box 416, Williamsburg, Iowa. 10-3t

Wanted—A good all around tinner and plumber. One of sober industrious habits, to whom we will be glad to give permanent employment. Address Bishop Hardware Company, Dowaigiac, Michigan. 9-2t

Wanted—Salesman experienced and successful in selling malleable ranges. Address 104 W. Lake St., Chicago, Illinois. 9-2t

Wanted—First-class tinner to take charge of shop. Must be capable of laying out patterns and do skylight and cornice work and mill piping. Address H-40, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

Wanted—A good all around tinner, who has some knowledge of plumbing and pipe fitting. Good wages to a hustler. No boozer. Good place. Can come at once. Write and state wages in first letter. Address James Kerr, Lake Villa, Illinois. 9-2t

Wanted—An all around tinner who understands furnace and hot water heating and can do ordinary plumbing. We also have pump and wind mill work and gasoline engines. He must be practical mechanic knowing what to do and go ahead and do it. Permanent and fine position for right man. Can't use boozer. Address H-39, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

Wanted—A first-class tinner and plumber, by March 15th. Address M-3, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-3t

Wanted—A good reliable young man to take charge of our roofing, spouting, slating and furnace work. A good position for a hustler. Address Bartholomew Hardware Co., Ashley, Ohio. 9-3t

A first-class sheet metal worker and pattern draftsman wants position by the year in warm climate, some time before October 1st, 1908. Will consider nothing less than $3.00. Am married. Address H-29, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 8-3t

Wanted for Steady Job—An all around tinner, plumber and clerk. Prefer German. State wages and give references. Must be sober, honest and industrious. Not a "has been." New, good place for the right man. Address Thomas Rawling, Wakefield, Nebraska. 9-3t

Wanted—A young tinner who would like to learn plumbing and heating trade. Address E. E. McLuen, Walworth, Wisconsin. 8-3t

Wanted—A good tinner who understands metal work. Want a man that can take charge of shop, or would be willing to take right man in as a partner. Address H-35, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 8-3t

Wanted—A good tinner for outside work. State experience and wages wanted. Address S. Nelson, Lincoln, Kansas. 7-3t

SITUATIONS WANTED.

SITUATION WANTED — Experienced tinner desires good permanent position where good services and full knowledge of general job and furnace work will be appreciated. No plumbing or steamfitting. Address stating wages and full details. Address M-14, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10-ufn

Situation Wanted—Who is the hardware man who wants a first-class tinner and furnace workman in a town of 1,000 or 2,000 inhabitants in Northern Illinois? I am one of the good tinners. Nothing but a steady job. State your wages. Address Ira C. Gray, Monticello, Indiana. Box 317. 10-3t

Situation Wanted—By tinner. Fifteen years' experience at in and outside furnace and job work. Address C. A. Storck, 69 Walton place, Chicago, Illinois. 10-3t

Situation Wanted—By young married man. Am experienced in plumbing, hot water and steam fitting. Strictly sober. Can give best of references. Address E. W. Noah, Grinnell, Iowa. 9-3t

Situation Wanted—By first-class tinner and furnace man of twenty years' experience. Steady job. Am married. If you can't pay $3.00 a day or better you needn't write. Address M-6, care of needn't write. Address M, 521 High St., Grinnell, Iowa. 9

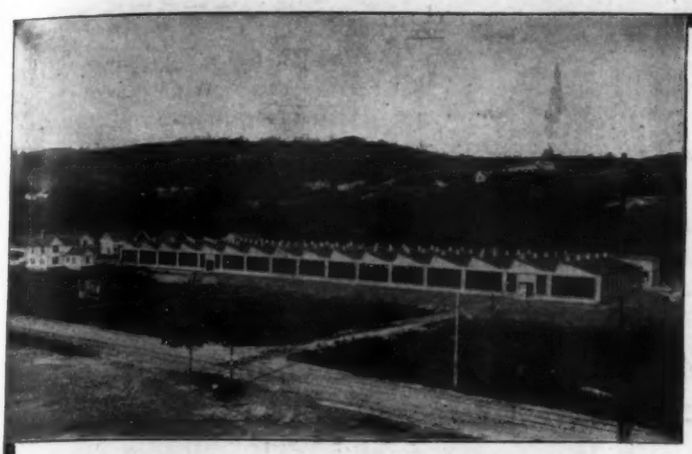
Position Wanted—By a young man with one year's experience at tinsmith work. A good willing worker. For further information write Reedsburg Hardware Co., Reedsburg, Wisconsin. 9-2t

Wanted Position—By a tinner with 3½ years' experience. Would like place where I can finish learning the trade. Am an all around hardware man. Married and no boozer. Can handle work in a small country town but aim is to be a first-class mechanic. Can do some plumbing and pipe work. Nothing but a steady place considered. Best of references. Address M-7, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

Wanted Situation—By a first-class tinner and furnace man, capable of taking charge of shop. Address C. W., Lake Mills, Wisconsin. 9-2t

Situation Wanted—A young man with one year's experience at plumbing and heating trade, would like a position to finish learning the trade, with a chance to learn the tin trade. Address M-9, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

Wanted—Situation as clerk in hardware department. Oklahoma preferred. Have followed general hardware for twenty years. Understand tinning and have been manager of $6,000 stock for past five years. Can furnish best of references. Address H-38, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 8-3t



Jones & Lamson Machine Co., Springfield, Vt., using 80 20-inch Metal Top "Burt" Ventilators. Among other prominent machine shops using "Burt" Ventilators are: Nicholson File Co., Paterson, N. J., 11 16-inch (4th order); Dutchess Tool Co., Fishkill-on-Hudson, N. Y., 13 30-inch (4th order); Utica Drop Forge & Tool Co., Utica, N. Y., 36 30-inch. We have also recently equipped 19 machine shops in addition to the above.

A Famous Machine Shop

is that of the Jones & Lamson Machine Co., of Springfield, Vt. It is modern and complete in every detail, and consequently, the "saw tooth" roof of this fine factory is equipped with eighty 20-inch metal top

Burt Ventilators

Burt Ventilators were chosen for this work because they were absolutely the best to be had, and strictly high grade in every respect. They are provided with patented sliding sleeve dampers which can be adjusted to any degree, and is held permanently without tying the rope to hook, nail or post, as in the case of the common damper. Where glass tops are ordered, ventilator is a combined sky-light and ventilator, and damper can be closed without interfering with the light.

Send for our new 92-page catalog giving fine illustrations of mills, shops, factories, and residences where Burt Ventilators are in successful use.

Notice Sliding Sleeve Damper (patented). Furnished with flat wired glass, up to and including the 66-inch size. Metal Tops furnished if desired.

Burt Mfg. Co., 650 Main St., Akron, O.

SPECIAL NOTICES.

WILL BUY HARDWARE STOCK

We have a 640 acre farm in South Dakota to exchange for stock. Write full particulars regarding stock in first letter. Address DALTON & VAUGHN LAND CO., Pierre, South Dakota. 8-4t

FOR SALE

Complete set of tinners' tools and machines, all in first-class condition. Detailed list an price furnished on request. Address, BASCHE-SAGE HARDWARE CO., Baker City, Ore. 8-3t

WANTED

Practical Foundryman desires to correspond with stove founders contemplating a change in the manufacturing end of their plants. References supplied and personal interview solicited. Address "Practical" care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 8-4t

FOR SALE

Silent partner, changing location will sell half interest in well established paying hardware. Good town. 700 population. Northwestern Iowa. Remaining partner, tinner and all around man. Prefer one able to do his share of the work. Best of references given and required. Stock $4,800. Terms on part. Address K-33, care, THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

WANTED

By experienced traveling salesman position with reliable stove firm. Five years exclusive stove experience. References as to ability, character, etc. Address K-36, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10-1t

Situation Wanted

By experienced and capable stove salesman as manager of retail stove department. Can handle correspondence and detail work. References. Address, "Salesman" care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10-1t

FOR SALE

Leading Stove, Hardware, Crockery, Housefurnishing Goods, Tin and Plumbing Shop, located in Southwest Missouri, County seat, population exceeding 7,000; three railroads, and splendid farming country; established 1870. Invoice $18,000; can be reduced. Two story brick building, 37x130. Will sell or rent. Cash and part time.. No trade. Reason for selling to engage in manufacturing. A snap. Write at once. Address, K-29, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-3t

Situation Wanted

As floor salesman by practical stove salesman. Long experience as stove salesman. Address K-32, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

Situation Wanted

As traveling salesman. Would prefer Southern Iowa or Northern Missouri. Extensive acquaintance with trade. Address K-31, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

For Sale

Good paying Cornice and Tinshop business. Tools all practically new, and in first class condition. With a stock that is very light. Several months work ahead with contracts go with the business. Reasons for selling are the best, and will be sold cheap for cash, or on reasonable terms. Situated in a thriving South Dakota town. Write at once to K 26, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 8-3t

DIXON'S

Ticonderoga Flake Graphite reduces friction losses in cylinders, bearings, and at all friction points. Get free sample 18-C.
Joseph Dixon Crucible Co., Jersey City, N.J.

FOR SALE

To Hardware Merchants only—purchases limited to $3,000 in any one year—Fire Insurance policies worth one hundred cents on the dollar every day in the year, and at 40% less cost than you have been paying your Stock Companies. Isn't that a saving worth while? Think it over. If you have any doubt as to the quality of the Insurance we furnish, we can give you satisfactory references. Write for full particulars to-day.

Iowa Hardware Mutual Insurance Association

MASON CITY, IOWA

S. R. MILES, President **A. R. SALE, Secretary**

SPECIAL NOTICES

SALESMAN visiting stove and hardware trade to handle household specialty as a side line; extensively advertised in largest magazines, easy seller, immense sales, big profits; in writing state line you are selling and territory you cover. Address C. E. Swartzbaugh, 1336 West Bancrott street, Toledo, Ohio.

FOR SALE

Tin and furnace shop, first-class tools as good as new, 1 horse, 2 wagons, 1 O. K. Steel Brake (new). Will invoice $1,200. Reasons for selling, going out of city. Will sell for cash only. Address Lake View Tin & Furnace Co., 1871 E. 119th St. S. E., Cleveland, Ohio. 9-ufn

WANTED

A traveling representative in furnace department of well known manufacturer. Must be under forty years of age and have had practical experience and must thoroughly understand hot air heating. References required. Address K-34, care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 9-2t

WANTED

First-class Tinner, Plumber and Steamfitter. Must be good, sober and industrious man, willing to work for our interests. Married man preferred. Must thoroughly understand furnace work as well as all branches of the above lines. Right party could have opportunity to take an interest in business. Good wages and steady job. Give full particulars as to experience, references and salary desired. Address, "Northern Ohio," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 8-4t

SALESMAN WANTED

To carry a good line of Stove Polish as a side line. Cash commission basis. Address for full particulars, K-25, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

6-6t

BLACK Silk STOVE POLISH is the NAME

Made Especially For dealers USE on Sample Stoves

CAREFULLY MADE FROM GOOD MATERIALS
If You Want a BLACK, SILKY, GLOSSY, SHINE TRY

Black SILK Stove Polish

Made at STERLING, ILLINOIS, **The Home of the Black SILK STOVE POLISH**

BLACK SILK STOVE POLISH WORKS

LIBERAL COMMISSION

TINNERS

CAN INCREASE THEIR MEANS BY SOLICITING SUBSCRIPTIONS FOR

The American Artisan and Hardware Record

Write for Particulars. Address

THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Ill.

NOW GET BUSY!

Only 3 weeks and 3 days are left you in which to trim your Show Window for

THE AMERICAN ARTISAN PRIZE
WINDOW DISPLAY COMPETITION

You cannot afford to miss the opportunity of winning one of those Cash Prizes amounting to

100 DOLLARS IN GOLD

nor can you afford to postpone the increase in your sales which will surely result from a new and attractive display in that show window. Better tend to it at once. **Don't Put It Off!**

$50.00 $50.00 in Gold for photograph and description of Best Window Display of Hardware.

$25.00 $25.00 in Gold for photograph and description second in excellence.

$15.00 $15.00 in Gold for photograph and description third in excellence.

$10.00 $10.00 in Gold for photograph and description fourth in excellence.

CONTESTANTS—Any hardware dealer, or his assistant or clerk, is eligible to this competition.

TIME—The photographs may be sent by mail or express, charges prepaid, and must reach this office not later than noon, April 1, 1908. Address all photographs to

THE AMERICAN ARTISAN PRIZE COMPETITION
69 DEARBORN STREET, CHICAGO, ILL.

CONDITIONS—Each photograph must be signed by a fictitious name or device, and the same name or device must be put upon a sealed envelope, containing the real name and address of the contestant. This envelope is to be enclosed with the photograph.

AWARD OF PRIZES—The Competition Committee, one of whom will be a practical window trimming man and one a practical hardware man, will pass upon all photographs and descriptions received within the prescribed time and will decide between the contestants.

THE AMERICAN ARTISAN reserves the right to publish all photographs and descriptions of same submitted in this competition.

316-318 No. 3rd St., ST. LOUIS, MO.

Do **you see** that address? **It's the best place** on earth to buy

Stove Dealer's Supplies
Castings and Stove Repairs

Prices Are Lowest. Prompt Shipment

A. G. BRAUER SUPPLY CO., 316-318 No. 3rd St., ST. LOUIS, MO.

Cleveland Nickel Works, Cleveland, Ohio

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"SUPERIOR" Improved Exhaust Tumbling Mills, Dust Arresters, Hard Iron Stars, Wrought Iron Chaplets, Plain and Tinned, Stove Rods, Furnace Rods, Chair Rods, Stove Scrapers and **all kinds of NICKEL PLATED STOVE TRIMMINGS.** Send for catalogue.

Secure the Genuine

EAST INDIA PLUMBAGO FROM **STEVENS,** if you want to do away with casting troubles. Let us send a cask on approval.

FREDERIC B. STEVENS
Cor. Larned and Third Streets
DETROIT

"Everything for a Foundry." Goods of quality only.

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THE "Acme"

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MADE BY **EVANS STAMPING AND PLATING CO.** TAUNTON, MASS.
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Prompt Shipments. Give Us a Trial

WELLER PATTERN Co
DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS
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For Stoves and Heaters

The Cleveland Castings Pattern Co.
CLEVELAND, OHIO

The GEO. W. COPE **STOVE PATTERN WORKS** Cor. Brush & Woodbridge Streets DETROIT, MICHIGAN

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For Stoves and Heaters
First-Class in Wood and Iron

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Established 1855

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IRON & WOOD
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QUINCY, ILL.

YALE
Russia finish, pat. lock
STOVE PIPE

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

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In the event your jobber does not handle this pipe send your inquiries to us.

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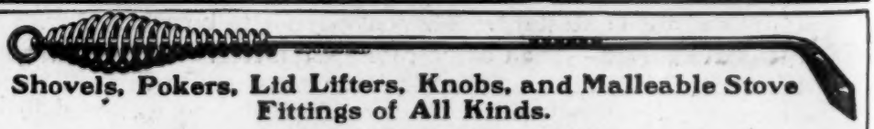

Shovels, Pokers, Lid Lifters, Knobs, and Malleable Stove Fittings of All Kinds.

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Adjustable Safety Thimble

The heads are extra heavy cast iron, connected by spiral steel springs whose tension adjusts them to any thickness of floor or partition.

The tin cylinders are attached to the japanned iron heads with rivets.

The Thimble is a perfect safeguard against fire from overheated stove or furnace pipes which pass through floors or partitions.

I make all sizes and extensions.

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TRADE STAR BRAND MARK **BRASS AND IRON** TRADE STAR BRAND MARK

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SPECIALLY ADAPTED FOR FURNACES

Full Assortment in Stock Ready for Immediate Shipment.

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AMERICAN SHEET AND TIN PLATE COMPANY

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BLACK SHEETS

American Bessemer
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Watch for Advertisement relative to Galvanized Sheets and Bright Tins—appearing next week.

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Detail Work a Specialty

Ask for Catalogue

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Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your jobber for them or write us.

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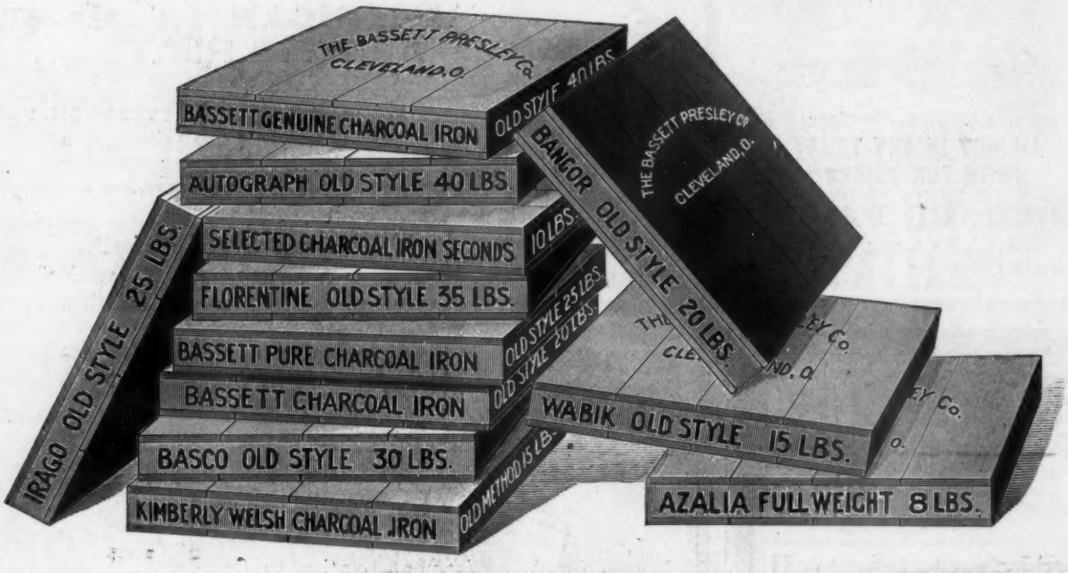
KNOWN MERIT SWEEPS ALL BEFORE IT. IF YOUR GOODS HAVE MERIT YOU SHOULD MAKE THEM KNOWN

DO YOU WANT THE BEST ROOFING TIN?

WE CAN SUPPLY YOUR DEMANDS
IN THIS MATERIAL
MADE FROM EITHER CHARCOAL IRON OR STEEL

"THE ROOFING OF QUALITY"



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EAVES TROUGH and CONDUCTOR PIPE
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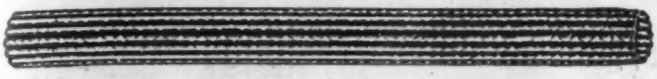
SOLDER

Write for our monthly stock list

THE BASSETT - PRESLEY CO.

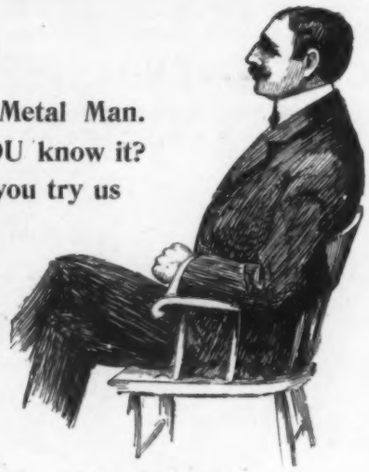
OFFICES 402-415 WESTERN RESERVE BLDG.

CLEVELAND, OHIO



Let's get right down to business, Mr. Sheet Metal Man.
We know we can serve you right, but do YOU know it?
And how're you going to find out unless you try us and see for yourself?

We have the goods.
We know how to make them.
We have the workmen.
We have the facilities.
We have the output.
We can ship quick.
WE CAN MAKE THE PRICE.



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ROOFING, SIDING, CEILINGS, CORNICES, EAVE TROUGH, PIPE, TIN PLATE, SHEETS, ETC. ETC.

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THE BERGER MFG. CO.
CANTON, O.
Largest Sheet Metal Workers in the World
BRANCHES; New York, Philadelphia, Boston, Chicago St. Louis, Atlanta, San Francisco, Minneapolis.

BETTER BE READY TO SHOW SAMPLES WHEN YOUR CUSTOMERS ASK FOR THE

CRESCENT ROASTER-BAKER

WRITE FOR PRICES AND DISCOUNT.
MADE IN THREE SIZES.

ORDER BY NUMBER.

NUMBER	09	010½	012
SIZE	9x14x7	10½x15½x8	13x18x8
LIST PRICE—GROSS	31.95	39.25	51.90
SHIPPING WEIGHT Nested-Gross	492 Lbs.	588 Lbs.	672 Lbs.

MANUFACTURED BY

Wheeling Corrugating Company

WHEELING, W. VA.

Made from SPECIAL BLUED SMOOTH STEEL.
Wire Detachable Hinge and Wire Locking Device.

UNBREAKABLE. THE BEST.

Superior in Material and Workmanship. HIGH GRADE UNIFORM QUALITY.

Made with Four Raised Points or Feet, which raise the Pan from the Oven Floor, leaving Space for Circulation of Air. PREVENTS BURNING.

Fitted with Rotary Ventilators.

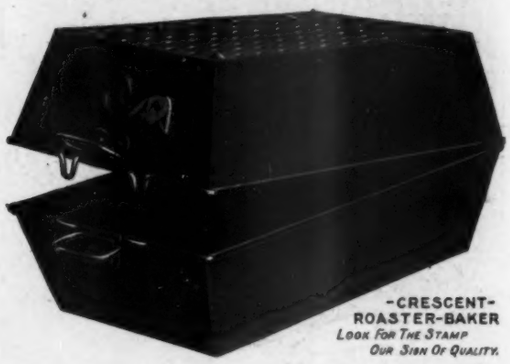
SELF BASTING. SELF BROWNING.

Pans, upper and lower, are the Same Size, and Indented Top and Bottom.

Dripping Rack for Bottom Pan.

In all its Good Points the Crescent HAS NO EQUAL.

We Ship the Crescent Roaster NESTED—CRATED.



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BRANCH OFFICES AND WAREHOUSES;

NEW YORK CITY	47 Cliff Street
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Plecker's *Corrugated* Expanding *Conductors*

Have no Cross Seams. Made of Galvanized Iron in ten-foot lengths.

Will not burst when full of ice.

CLARK, QUIEN & MORSE, PEORIA, ILL.

The Tendency Today is to Buy the Best Roofing Tin

"Reg. in U. S. M&E Pat. Off."

"Merchant's Old Method"

represents the quality of Roofing Tin in demand. There is an insistent demand for it where the best is required.

The quality never changes and it pays to use the recognized standard quality.

Write us for **Roofing Rules**—FREE.

MERCHANT & EVANS CO.

Successor to

MERCHANT & CO., Inc.
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Brooklyn
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Some time—some day, long after you've forgotten the slight additional cost, you'll be glad you had the good judgment to select a Keighley Lock-Joint Metal Ceiling. For your ceiling then will still be "absolutely dust-proof and air-tight." The joints will never start open—they can't.

Why not decide to-day to get the dust-proof ceiling? At least write for a copy of Catalog "D."

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Perfection In Metal Ceilings

THE GOODS MANUFACTURED BY

FRIEDLEY-VOSHARDT CO.

ARE IN A CLASS BY THEMSELVES
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Quick Shipments Our Specialty *Send for Catalog*

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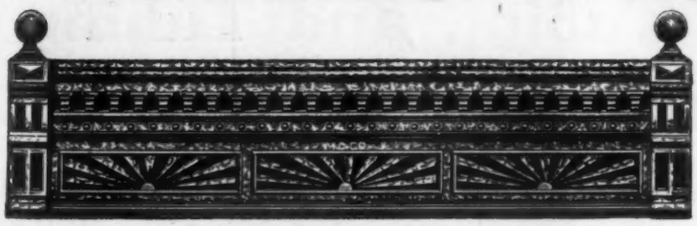

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THE LARGEST SHEET METAL WORKS IN THE MIDDLE-WEST

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MILWAUKEE — WISCONSIN.

IT WILL PAY YOU to enter into Competition for the

$100.00 IN GOLD

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THE HARRINGTON AND KING PERFORATING CO.

PERFORATED METALS
OF EVERY DESCRIPTION AND FOR ALL PURPOSES
FOR SCREENS OF ALL KINDS

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New York Office: 114 Liberty Street.

Metal Roofing and Siding.
Corrugated Sheets, painted or galvanized.
Metal Window Frames and Sash Glazed with wired glass.
Skylights.
Skylight Gearing.
Price lists and estimates furnished upon request.

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It Is Acknowledged

PRICE
3½-In. ..... $ 50
4 " 60
4½ " 65
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By the best workmen to be the only way to close the end of an eave trough as corrugations ARE PROOF against frost.

Order a Set of Tools TODAY from any Jobber or Tinners' Supply House.

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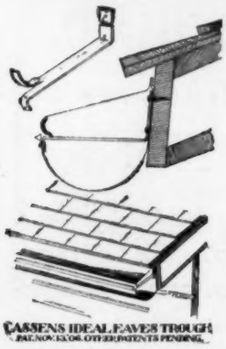

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The Trough with the Lid

The most modern, up-to-date and practical eaves trough on the market.

All defects of the old style gutter overcome.

Traveling salesmen wanted to carry the IDEAL as a side line.

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INTERCHANGEABLE
LOCK-CORNER SHELF BOXES
For the Hardware Trade.
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Lock Seam Tubing and Tubing
ELBOWS

1, 1¼, 1½ Inches in Diameter

Galvanized After Formation

Heaviest Tin Speaking Tube on the Market

Elbows Made of One Piece of Metal

1, 1¼, 1½ Inches in Diameter

Heavy Tin—Galvanized After Formation

For Ice Box Drains, Portico Work, Speaking Tubes, Lighting Systems, Incubators.
Inquiries regarding special work solicited.

Ask for prices, stating QUANTITIES DESIRED

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To save you time, trouble and money. That's the purpose of a Clayton & Lambert Fire Pot or Torch.

The almost universal adoption of our line, by the artisan, in practically every channel of commercial activity requiring gasoline fires, shows conclusively these tools are in a class altogether above anything ever offered. They satisfy your requirements thoroughly; they require considerably less expense to maintain and are superior in workmanship and durability to any other make. You will find new advantages in C. & L. Fire Pots and Torches every day. Don't accept anything else, even if it is guaranteed to be "just as good" Read what our booklet says.

No. 1 Fire Pot $6.00 Net.
Jobbers supply at factory price, or we will ship direct if cash accompanies your order.

CLAYTON & LAMBERT Mfg. Co. Detroit, Mich. U.S.A.

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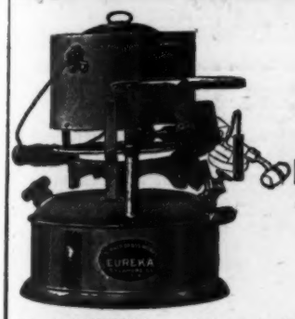

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No. 6 EUREKA. Price each, $6.00 Net
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Jobbers sell at factory price.

THE TURNER BRASS WORKS
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C. N. HOOPER, Dubuque, Ia.

Vitreous Enameling
TECHNOLOGIST

Designs, builds and starts new plants, improves quality and reduces the costs in those already established.

Blick No. 3 The Best Box
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Sell them Blick No. 3 boxes. They are big ones, 6½ x 8½ x 19 inches. Made of heavy galvanized steel. Painted green, the new government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Watertight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.
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THE ELLER TRADE-MARK
is a little thing to look for, but a big thing to find; it appears on all genuine
ART METAL CEILINGS

Tin and Terne Plate
Eaves Trough, Conductor Pipe, Elbows and Shoes
Steel Roofing
Brick and Stone Siding
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ELLER MFG. CO. : : CANTON, OHIO

TIME required in erection of metal ceilings tells what profit is made on the job. If the construction of the plate is poor, they won't fit and will require more time and care and will produce a badly appearing job, as a result.

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the profit sharing kind. Let us tell you more about them. Our Art Metal Ceiling book "H" is yours for a postal.

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69 Dearborn Street, CHICAGO

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Write to-day for particulars.

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Uno Revolving Ventilators

A sure cure for smoky chimneys, the best for ventilation.

4" to 3"
Send for catalogue.

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ROOFING SLATE

All Grades Manufactured and Sold by

THE AULD & CONGER CO.
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WE MINE OUR OWN SLATE

"WATSON" HOG AND WATERING TROUGHS

No Better Hog Trough Made

Made of one piece in bottom with steel ends. No cast ends to be broken out and the trough crippled, but will stand the roughest usage. Made strong with one inch angle around top.

Will not leak or rust out, have steel trusses to set on and to fasten down ready for use.

Every Farmer should have one. Why not sell them?

Mr. Dealer, Ask for Sizes and Prices.

Your Orders are Wanted

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THE JAMES H. WATSON CO., Inc.
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METAL CEILINGS, EAVES TROUGH, CONDUCTOR PIPE, Etc., Etc.

Tanks of Every Size and Style

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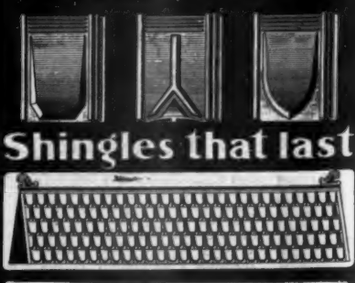

Shingles that last

Made from Galvanized Tin and Painted Tin
Storm, Rust and Fire Proof
Do you want to increase your business? THIS IS YOUR OPPORTUNITY. Write for catalogue samples and prices.

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MR. DEALER: Size 'Em Up!

Sanitary Dust-Pan | Sanitary Flour Bin Sifter | Sanitary Dishwasher | Eclipse Batter Mixer | The Easy Lawn Mower Sharpener | Acme Vegetable Strainer

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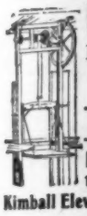

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Improved Quick and Easy, Rising Steam, Electric and Hand Power.

SEND FOR CIRCULAR.

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1031 Ninth St., COUNCIL BLUFFS, IOWA
Kimball Elevator CO., 139 Vincent St., Cleveland, O.

8-foot Shear

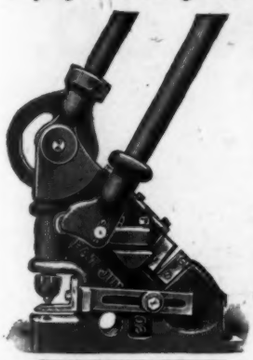
Write for Catalog "F."

We build a complete line of Shears, Punches and Forming Rolls, for either hand or belt power.
BERTSCH & CO., Cambridge City, Ind.

H. WEISS & CO.

20 Cliff Street, NEW YORK

Skylight Gearing and Chain Lifts



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Cornice Makers' Tools

Coppersmith's Tools

Pipe Threading Machines

Second-Hand Goods Bough Sold and Exchanged

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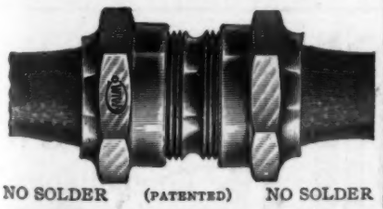


NO SOLDER (PATENTED) NO SOLDER

Do away entirely with wiping joints. A practical article and BIG SELLER.
Send for Descriptive Circular and Price-List.

MODERN IMPROVEMENTS MFG. CO.
486-470 17th Street • BROOKLYN, N. Y.

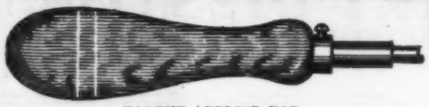
Two Reasons Why The Steel Brakes Are Better

Others Will Follow

1. By our patented construction we have succeeded in getting the greatest amount of strength with the minimum weight. They work much faster and easier, and do fully one-fourth more of the average work than any other brake.
2. They are made of Bessemer Steel, and all the working parts where strength is required are made of non-breakable steel castings.

You will be surprised to find out how cheap you can buy this up-to-date machine
WRITE FOR CATALOGUE.

Dreis & Krump Mfg. Co., Halsted and 32d Sts., Chicago



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This Handle is made of Gas Pipe and the best hard wood; is neatly finished; will not heat in use, and will not break. The Irons can be instantly fastened or released by turning a set screw. EVERLASTING. TRY THEM. We also keep a large stock of the finest Soldering Irons made.

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TOOLS FOR SHEET METALS

INCLUDING

Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies, Can-Making Machinery

MADE BY

NIAGARA MACHINE & TOOL WORKS
BUFFALO, N. Y.

MARVEL

Patent applied for

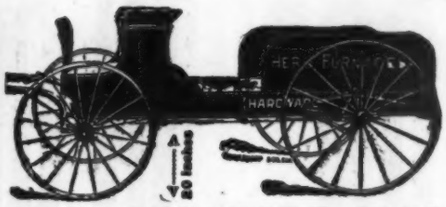
PORTABLE PUNCH No. 20

Made entirely of STEEL

Capacity ¼ inch hole in ¾ inch.
Length 38 inches, weight 16 lbs.
Write for circular and price of this and other Marvel Tools.

ARMSTRONG-BLUM MFG. CO.,
106 N. Francisco Ave., Chicago, Ill.

We Have a Hardware Delivery Wagon That You Can Depend Upon



Body 20 in. from the ground, full width; regular height wheels, and yet will turn short.

EASY TO LOAD AND UNLOAD

Durability guaranteed.
Complete catalogue on request.
Mention this paper and address in full.

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are made in every conceivable variety, to suit every purse and purpose, but all of the same superior quality.

¶ Our extensive advertising creates a demand, that every progressive dealer should be able to satisfy.

¶ It takes but a minute and a postal to ask for our catalog—it's more than worth while.

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New York London, Eng. Windsor, Ont.

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DISSTON SAWS, TOOLS AND FILES,

giving the progressive steps in their manufacture, large number of illustrations of the works, together with TREATISES on the CARE and USE of Saws, etc.

HENRY DISSTON & SONS, Inc.
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PHILADELPHIA, PA.

A NEW PATTERN STANDARD LEVEL—Two Level Glasses, One Plumb Glass

Side glasses may be reversed at any time; all easily adjustable; all glasses in plain view from both sides; brass trimmings on both sides.

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THE BAKER - McMILLEN COMPANY, Akron, Ohio.

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Pliers, Nippers, Spring Belt and Ticket Punches, Bolt Clippers, Dividers and Hardware Specialties, under the "Bernard," "Paragon," "Elm City," "Lodi" and "Excelsior" Brands.

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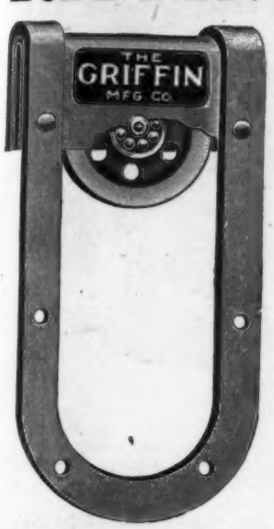

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These Hangers have hard steel Axles and Roller Bearings. Anti-Friction on any length of track.

Guaranteed to handle the heaviest doors satisfactorily.

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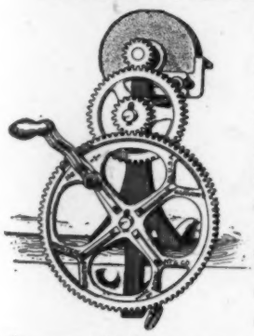

Of the grindstone or any other apparatus for sharpening table or kitchen cutlery or edge tools of every kind are our

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Grinders & Tool Sharpeners

Four sizes. Needed in every home—every day in the year. Every grinder guaranteed. Be sure; Get our catalogue with Discounts to the trade—to-day.

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Are Without Equal in Quality or Efficiency in Practical Use

New Styles—Have You Seen Them?

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RATCHET DRIVER with SCREW HOLDER NOS. 110-111-115

RATCHET "SCREW EYE" DRIVER, NOS. 80 and 81

ASK YOUR JOBBER ABOUT THEM

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North Bros. Mfg. Co., Philadelphia

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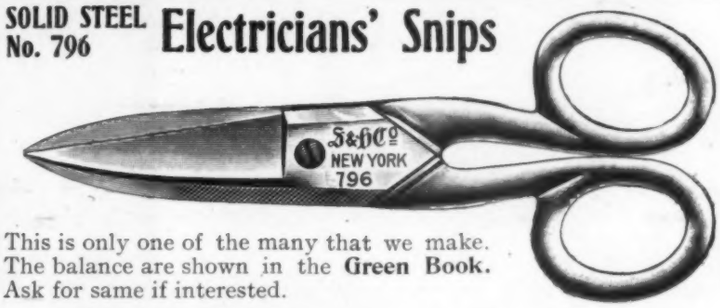

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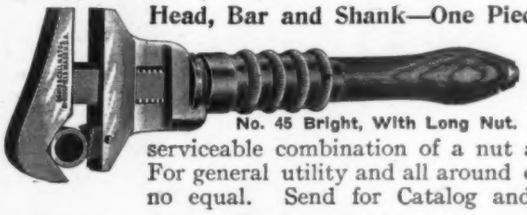

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Made from the best materials. Parts interchangeable. A strong and serviceable combination of a nut and pipe wrench. For general utility and all around convenience it has no equal. Send for Catalog and Prices.

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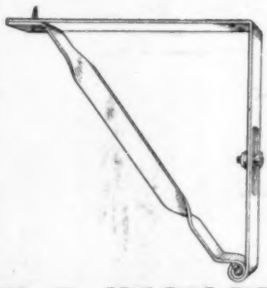

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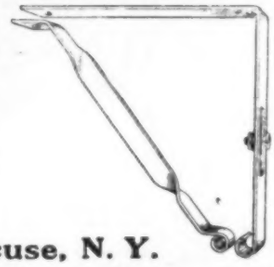
Light in Weight
Neat in Appearance
Stronger than Cast Iron

This bracket is detachable and much more easily placed than the ordinary cast bracket. Descriptive circulars and prices on application.



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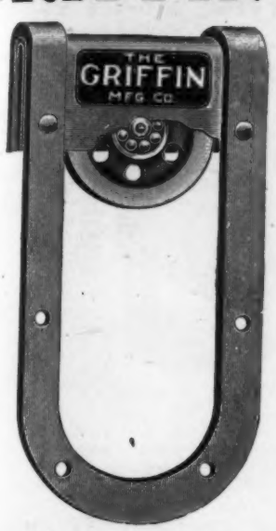

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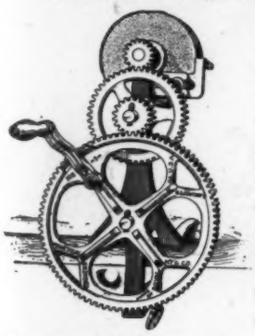

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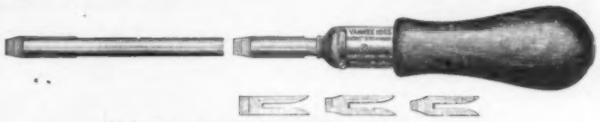

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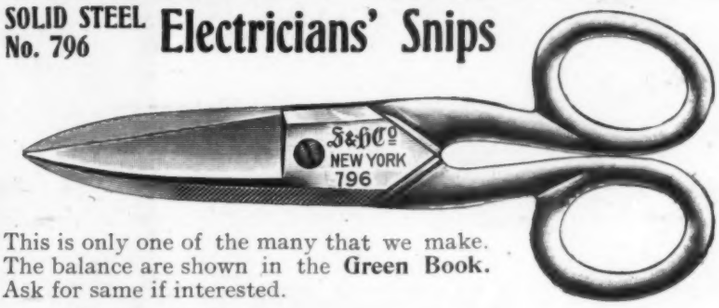

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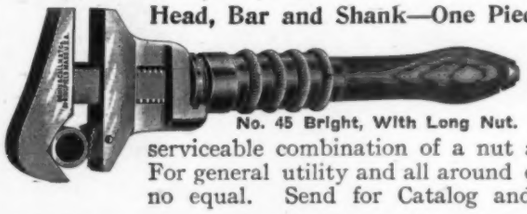

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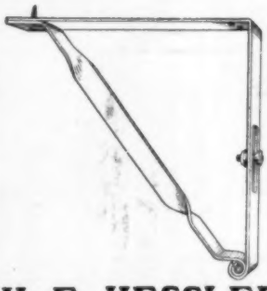

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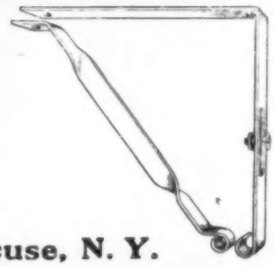

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The Ideal Epworth Acetylene Generators

Are Ideal in construction, Ideal in light producing power, Ideal in giving out steady light, Ideal in selling qualities, Ideal in lighting Dwellings, Stores, Hotels, Churches and Towns. Acetylene light is the safest, best, cheapest, brightest, finest light in the world, when produced in the Ideal Epworth Generators. Satisfaction guaranteed. Agents wanted.

IDEAL EPWORTH ACETYLENE CO., (Successors to Epworth Gas, Light & Heating Co., Waterloo, Iowa.)
JOHNSTON, PA. WATERLOO, IOWA

The DELPHOS
NON-OVERFLOW
Pump Can

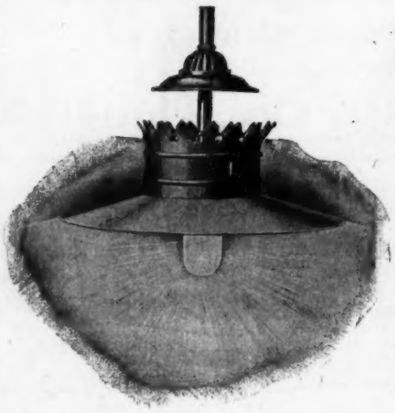
We have the exclusive right to manufacture and market a non-overflow Pump Can in the United States.

By a decision of the United States Court of the Northern District, Western Division, Cleveland, O., rendered in a suit against The Standard Oil Can Co. of Toledo, we were given the exclusive right to manufacture and market a non-overflow Pump Can in the United States.

Therefore we are in a position to furnish a can which for cleanliness, durability and satisfactory service is unequaled by any can made. Write for catalog.

DELPHOS MFG. CO., Delphos, Ohio

The Eveready Gas System Requires no Generating



NOTHING like it now on the market. No worry, no work, no odor, no smoke. NOISELESS. Always ready for instant use. Turn on the gas and light the same as city gas. Can be installed for a very small amount. Send for descriptive matter at once.

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It's Worth While

trying for part of that

$100.00 IN GOLD

offered in the

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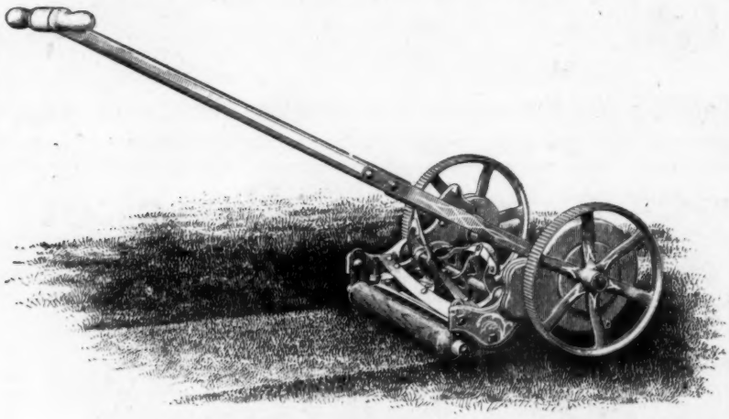
THE AMERICAN ARTISAN

Your chances of winning are as good as the other fellow's.

INFERIOR MADE LAWN MOWERS

do not give satisfaction—never did and never will. Mowers that are perfect in all the parts, carefully assembled and accurately adjusted are the trade winners. Try the Coldwell Line and see if it is not so.



COLDWELL LAWN MOWER CO.
Makers of Good Lawn Mowers
103 Lake Street, CHICAGO, ILL. NEWBURGH, N. Y.

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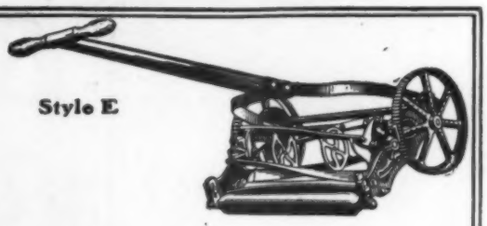


Style E

The Big 4 Combination in Lawn Mowers

Send for circular and prices.

The Genuine PHILADELPHIA Lawn Mowers

Unsurpassed Why Perfection

Unequalled Why Simple

Unrivalled Why Durable

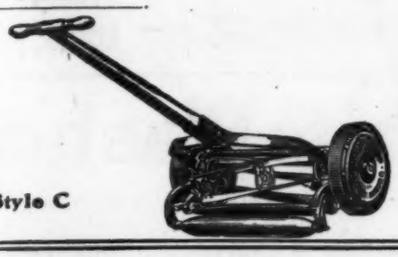
all have the words Philadelphia Lawn Mower Co. cast on the wheels of the mower. See you make no mistake in ordering.

THE PHILADELPHIA LAWN MOWER CO.

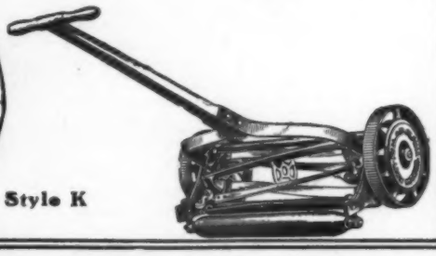
3101 to 3109 Chestnut Street, PHILADELPHIA, PA., U. S. A.

Are made in
6½ to 12 in. wheels
3 to 8 blades
17 style hand
5 horse mower

Standard Mowers the world over.



Style C



Style K

Agate NICKEL-STEEL Ware

AGATE L&G MFG. Co. NICKEL-STEEL WARE

is absolutely free from poisonous substance, is made by careful, experienced men, by a company founded in 1850. The first enameled ware and blue and white ware made in this country was made in our mills. We know how to make enameled ware safe and durable. We make it safe and durable because we are proud of the trade mark. Look for the blue label.

Lalance & Grosjean Mfg. Co.

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"KNOXWEED"

Sold under the strongest *guarantee*, will kill forever—

ALL NOXIOUS WEEDS

Can you sell this article which we *guarantee* will free the lawn of Dandelions and other weed pests—

PAXTON & GALLAGHER CO.
OMAHA, NEB.

UMBRELLA CLOTHES BAR

32 FEET DRYING SPACE

Handy in Laundry, Kitchen and Nursery. Handy Everywhere. Each arm one piece, kiln dried hardwood, works independently.
MARTCROSS CO., Mfrs.
40 Dearborn St., CHICAGO

Iwans' Volcano Revolving Chimney Top

Sizes 6 to 12 Inches.

Sold by Jobbers of Hardware and Tinners' Supplies.

Notice one of its **Strong Features:** The upward sloping opening in back of hood creates a constant upward draft, no matter how depressing the atmosphere.

You need it for some of your customers' chimneys.

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Mfrs. of Hardware Specialties
STREATOR, ILL.

"ROTARY"

The washer that is making a hit

UNEQUALED IN

STYLE, FINISH, DURABILITY or EASE of OPERATION

SOLD ON EXCLUSIVE AGENCY PLAN

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ROTARY WASHING MACHINE CO., ST. LOUIS, MO.

The White Washer

DOUBLE BALL BEARING. FLY WHEEL UNDER THE TUB. HIGHEST SPEED. EASIEST RUNNING. QUICKER REVERSE. FOOT POWER ATTACHMENT. TUB OPENS WHEN MACHINE IS IN FULL MOTION. FIVE YEARS' GUARANTEE. SOLD TO ONLY ONE DEALER IN EACH TOWN.

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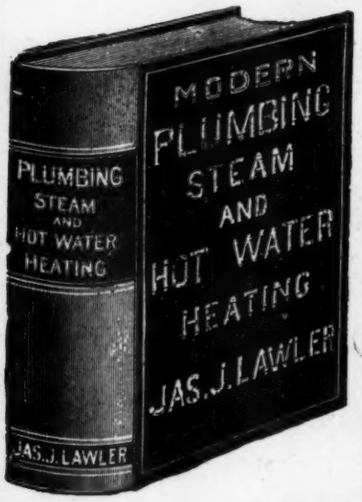
The White Way

White Lily Manufacturing Co.
1500 Rockingham Road, - Davenport, Iowa

MODERN SANITARY PLUMBING



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Yes, sir, the Jack Frost Freezer makes money for every dealer who handles it, simply and solely because it makes good "cream" for the man who gets it and because it's easy running, durable, and an ice economizer.

Your customers are just as particular as any other dealer's and just as appreciative of a freezer that **looks** good and plays the part it looks.

Best Multiple-Motion Freezer

You can't beat this multiple-motion freezer any way you may test it. Mechanical construction allows no **lost** motion; self-lubricating and all gearing covered so no oil or salt can get in can. Tub made of seasoned, kiln-dried lumber that doesn't warp, shrink or rot. Can is high-grade charcoal plate throughout, cover being drawn absolutely seamless. All metal parts heavily galvanized.

Ask to know more about the Jack Frost Freezer. Our proposition is ready for you and will interest you. Your profit on the Jack Frost is good and the freezer always "makes good," which brings the same customer back to your store to buy other goods. For details and particulars. Write us, asking for Catalogue No. 75.

Sturges & Burn Mfg. Co.
Makers of
Milk Cans, Packing Cans, Freezers, Griddles, Sheet Iron Specialties, Etc.
Harrison and Green Streets, Chicago, Illinois

The "O. K." Rotary Has Roller-Cogs Throughout

Known the World Over for Simplicity, Strength, Durability and ease of operation.

IF WE could place an O. K. washer in your store, set it up and **show you** through a practical demonstration of washing clothes, what it will do, it would not be necessary for us to tell you anything about it as the machine would speak for itself. But while thousands of dealers know all about this faithful machine through many years of close association, yet there are many who would be greatly **benefited financially** and otherwise too, if they would give the "O. K." an equal chance with other so called "just as good kind washers," for it would not take them long to be convinced that there is but one **"O. K."** Rotary, and that its name implies just what it is, simply **"O. K."** nothing more, nothing less.

Your correspondence solicited.

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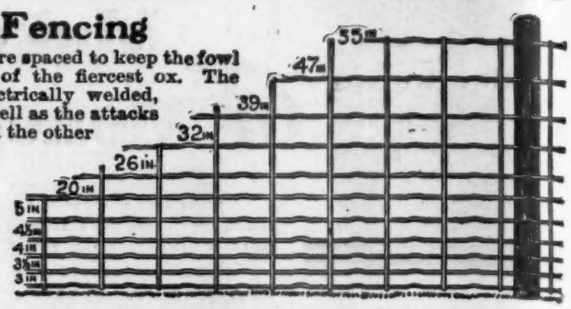
"Pittsburgh Perfect" Fences

For Field, Farm and Hog Fencing

are made to meet all the demands they are subject to. They are spaced to keep the fowl within their limits and are calculated to stand the strength of the fiercest ox. The wires and rods are of the best steel the market affords, electrically welded, and are galvanized so that they can resist the elements as well as the attacks of the curbed in animals. They are just as meritorious as all the other



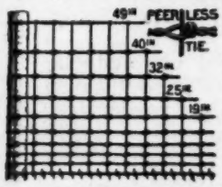
"Pittsburgh Perfect" Brands

of Wire Rods, Annealed, Bright and Galvanized Smooth Wire, Barb Wire, Twisted Cable Wire, Fence Staples, Wire Nails, Steel Hoops, Bands and Cotton Ties. Dealers save money on goods.

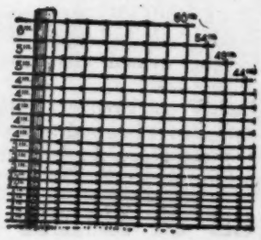
MANUFACTURED BY

The Pittsburgh Steel Co., Pittsburgh, Pa

THE DENNING FENCE



For yard and pasture has no equal. Our Peerless Cabled Fence with barb wire in the bottom turns hogs, absolutely. We beat the world on Poultry Fence. We make perfect Barb Wire. We ship mixed cars Woven Fence, Barb Wire and Nails.



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IRON Also ORNAMENTAL WIRE FENCES

FENCES Finest at lowest price. Guaranteed

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STANDARD HORSE NAIL CO.

NEW BRIGHTON, PA., U.S.A.

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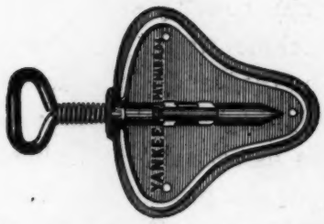

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3 inch to 8 inch

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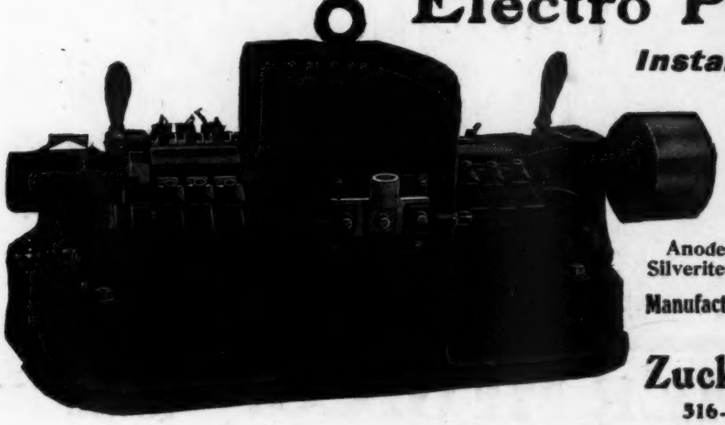
Installed Complete



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The Rotoplater "patented" polishes and plates at one operation in all solutions on small work.

Anodes of all metals; also Patent Corrugated and Silverite Nickel Anodes, patented.

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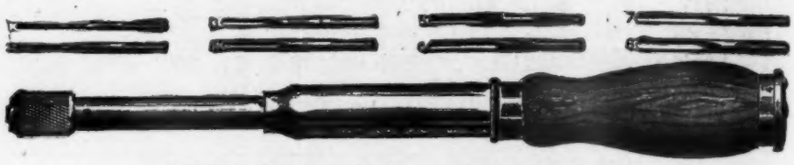
Strong, powerful tools. Six styles and sizes.



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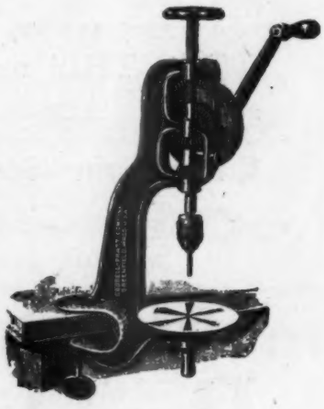

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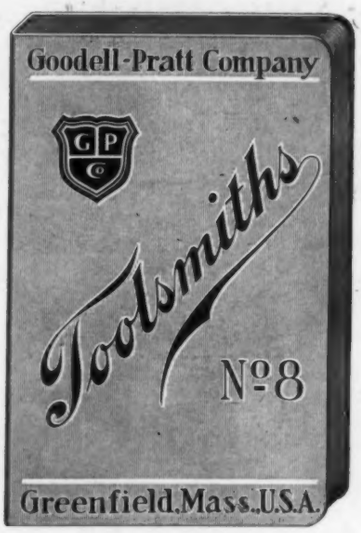

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Greenfield, Mass., U. S. A.

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have made the use of rope for
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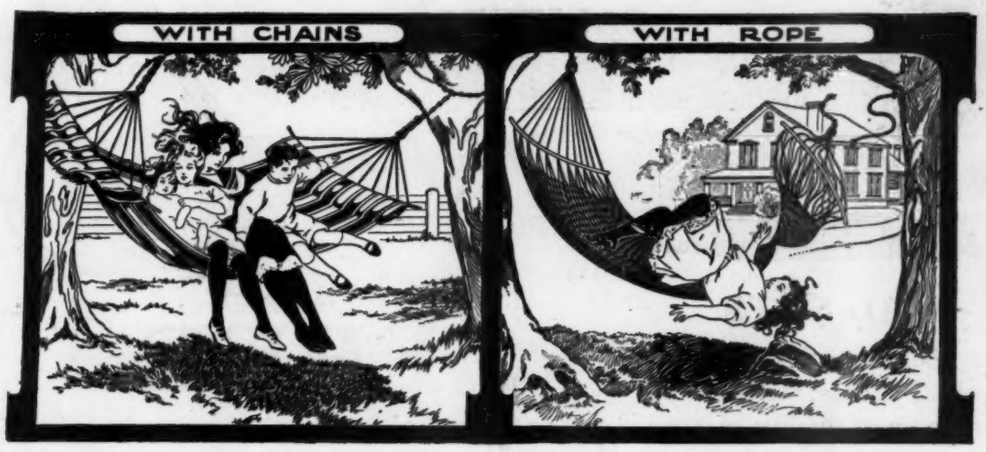
CRIMINAL NEGLIGENCE



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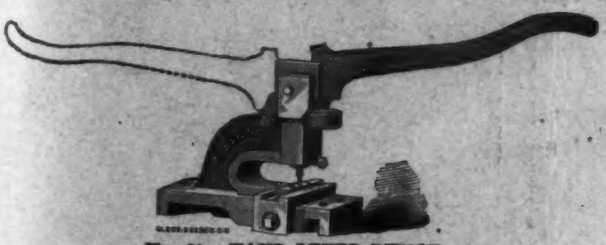
Will cut No. 16 Gauge material, a swath of 3¼-inch.
Weight, 20 pounds.



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Will punch 3/16-inch holes in ⅛-inch iron.

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IT WILL PAY YOU to enter into Competition for the

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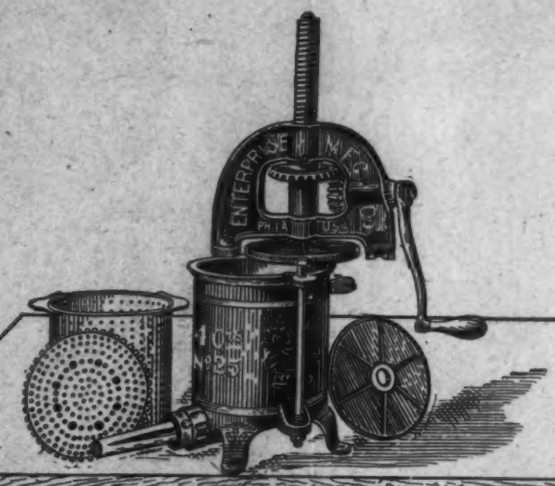

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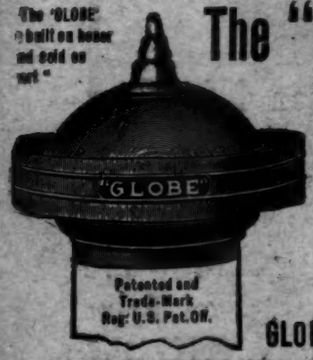

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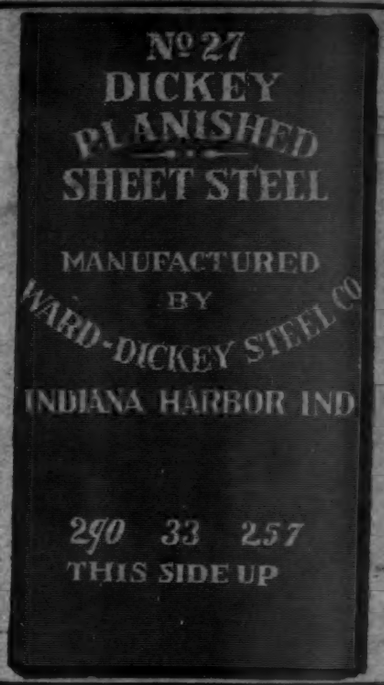

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